DVPlay

User Guide 6.04

DV Player 6.04, PlayList Editor 6.04
NewsEditor 6.00

Printing History

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C O N T E N T S

DVPlay Playout software introduction

1 Main purposes of the DVPlay software..... 4
2 New features in DVPlay 6 vs. 5 5

1. Installation..... 6

1. 1 Requirements..... 6
1. 2 Preparation before starting the installation..... 7
1. 3 Set your own language (from 6.00) 10
1. 4 General description of the installation process 14
1. 5 DVPlayer scheme..... 15
1. 6 Installing the Video Player..... 16
1. 7 Installing the TitleDesigner and the PlayList Editor on the Production PC..... 22
1. 8 Applying changes to Windows localized OS (non-English version)..... 24
1. 9 Upgrading the DVPlay software..... 25
1.10 Multichannel..... 25
1.11 Backup solution..... 25

2. DVPlay Software Registration..... 26

3. Video Player 6..... 28

3. 1 General description of the interface..... 28
3. 2 Switching between Matrox,DeckLink and Stradis hardware card 29
3. 3 Matrox video card driver settings..... 30
3. 4 DeckLink drivers settings 32
3. 5 Switching to external audio and video signal using FireWire..... 33
3. 6 Support for 16:9 signal 35
3. 7 Playing files with custom resolution 36
3. 8 Video files formats..... 37
3. 9 How to create your MPEG-2 files..... 38
3.10 Logo managing..... 40

4. PlayList Editor..... 44

4.1 General description of the interface..... 44
4.2 Main playlists 46
4.3 Sub playlists 48
4.4 Meta tag playlists (from 6.00)..... 49
4.5 Circle Playlists..... 50
4.6 Playlist editor menu 52
4.7 Playlist editor options 53
4.8 Displaying statistics for the played files..... 54

5. Control Center..... 56

5.1 Control center layout..... 56
5.2 MyCommands..... 59
5.3 Events windows 62
5.4 Color scheme (from 6.00) 63

6. Scheduling 65

6.1 General description 65
6.2 Define a time table 66
6.3 Add TimeTables to Time Event module 69
6.4 Common scheduling use 70

7. Meta tag library (from 6.00) 76
7.1 General description 76
7.2 Meta tag playlists 77
7.3 Meta tag files 79
7.4 Meta tag statistics 80

8. DTMF Tones..... 81
8.1 DTMF tones managing..... 81
8.2 Working with the DTMF generator..... 85

9. RS-232 87

10. DVPlay Maintenance 93
10.1 DVPlay maintenance 93
10.2 Managing the DV Play software via Internet 94

11. Files Trimming..... 96

12. News Editor..... 97
12.1 General description..... 97
12.2 Showing news in schedule..... 99

13. E-mail Manager..... 101

14. Common Tasks Solutions 107
14.1 Keeping the settings when reinstalling Video Player..... 107
14.2 Changing the picture in the preview window..... 108
14.3 Needed settings when the TitleDesigner and the Video Player are started on one and the same computer 108

➢Chapter 10.1 DVPlay maintenance is with status *must be read* by all the customers using DVPlay software for emission of a real broadcast signal.

Main purposes of the DVPlay software

The Digital Video Player is a professional MPEG-2 player used for TV broadcasting and TV automation. The software has undergone a long process of development, elaboration and supplementing of new features since Version 1 has been released in 2001 up to its current Version 6 (2012). We are glad to present you a complete and tested product to which you can entrust your business.

Presently many TV companies from all over the world work with this software and we have our customers' positive feedback which is our greatest honor to all our efforts.

Our experience so far and the feedback from our customers prove that our software has many advantages. Please read carefully this manual and be sure that you will find out that the DVPlay software will thoroughly meet your requirements.

THE MAIN USERS OF THIS SOFTWARE ARE THE TV CHANNELS BROADCASTING COMPANIES. WITH DVPLAY SOFTWARE OUR CUSTOMERS GET BENEFITS OF:

- Stable solution on which you can trust and will be sure that it will work without problems in a 24/7/365 mode.
- Low cost of the needed hardware and the DVPlay software.
- Great look and functionality of the interface focused on easier and faster playlist and title design creation.
- Ability to program almost every aspect of the usage of the Player which results in the lack of need of an operator. One standard situation is that the user can create a playlist for the next few days and the player automatically will load this playlist on the correct date without further human intervention.
- Ability to create logos without the help of a mixer or ANY additional cost and without losing quality.
- Easy overlay of titles without using a mixer.
- Great looking animation / 3D titles
- Support of 16:9 (anamorphic) aspect ratio for analog and SDI output.
- E-mail notification when a problem occurs with the player.
- Sending commands to a mixer or a matrix via RS-232 module.
- Ability to play files with custom resolution.

These features make the DVPlay software very adequate for broadcasting of small, middle TV channels and also IPTV channels. For a big TV network with satellite broadcasting over many countries we support SDI with embedded sound and quality signal, but it doesn't include some features like showing subtitles. However, if you plan to broadcast via satellite you may test the DVPlay software to find out that it will fit your highest demands.

New features in DV Play 6 vs 5

The DVPlay v.6 is the next great improvement of the DVPlay software. While the DVPlay 5 was focused on technical details, the new DV Play v.6 is focused on the human operators and especially on the way they create playlists and title designs. We have created many new features in order to make the playlists and the title design process easier and faster.

We encourage all current DVPlay 5 customers to upgrade to DVPlay 6. You can use your current DVPlay 5 servers without need to do ANY change on the hardware.

These are some of the new features:

- Additional hardware support for Stradis hardware cards including SD and HD. The support of the hardware used in DVPlay 5 remains unchanged.
- Meta tag library – allows to logically grouping your videos and searching over them.
- New nice looking interface in Win 7 style
  - Docking and resizing option everywhere allowing using optimally your screen resolution up to 2560x1600.
  - Setting your own color scheme.
- Many improvements in the Playlist editor.
- Unicode support now including both titles and names of your video files.
- Titles module can now play 3D animation.
- Significant improvement of the Title creation.
- Significant improvement of the manuals.

Coming soon:

- **Extended PlayList editor** – a new way to create your playlists. It will support making of the program schedule and fill the video files in this program schedule.
- Integration with Ads **Schedule Pro** – allows you to offer and sell TV commercial on-line via Internet. More info you can find at: http://adsschedulepro.com

1. Installation

1.1. Requirements

1.1.1 Specialized hardware for analog or SDI signals creation:

Video Card - you can start using the software with almost EVERY middle class video card, but in order to receive an interlaced signal with a good broadcast quality you must use a special model of a video card produced from Matrox. You will receive an analog video signal in an s-video or composite format. The sound signal is received from your sound card which may be one built in a MB or external sound card.

If you need a playout solution with SDI output you should use a BlackMagic DeckLink card. In such a case you may use any video card, the video cards included in the new Intel CPU like i5 and i7 are fine too. The SDI signal produced from the DeckLink is with embedded sound and some models have an option to use GenLock.

Note that not ALL models DeckLink card work with our software due to the constant changes made from the company DeckLink . If you have already a DeckLink card you may send us its part number and ask if it is possible to use it with the DV Play software.

In the country where we have distributor you may ask him to do a server for you. For countries where we do not have distributor we recommend that you build the server yourself and our offer is only to sell you the specific hardware (Matrox video card or DeckLink card) plus our DV Play software. This way allows you to do the process easier, faster and cheaper.

1.1.2 Personal computer

Hardware	Minimal	Recommended
Motherboard	Intel based with FSB 1333	Intel based i3,i5,i7
CPU	Core 2 DUO 2.66 GHz	Intel i5 3.3 GHz
RAM	2 GB	4 GB
HDD	SATA 2	SATA 2

Notes

1. If you want to use a Duo processor you will need at least a 2.4 GHz unit.

2. You need more a reliable computer than a powerful one.

3. Even if you use a PC with the recommended parameters you may not be able to play files if other programs have been already started on the same PC, because they would take a lot of the CPU power. For that reason you must keep an eye on the Power Indicator. CPU power indicator becomes red when CPU usage gets into high value range and continues that way for more than a few seconds which may lead to the interruptions of playing. Normal CPU usage values when only DVPlay 6 is started are about 20-30 % on CPU Core 2 DUO 2.66 GHz.

* You can test the DVPlay LTD software with almost ANY middle class video card and you will notice the differences only if you try to broadcast signal. However, you can easily try the features and the stability of the software on your desktop PC.

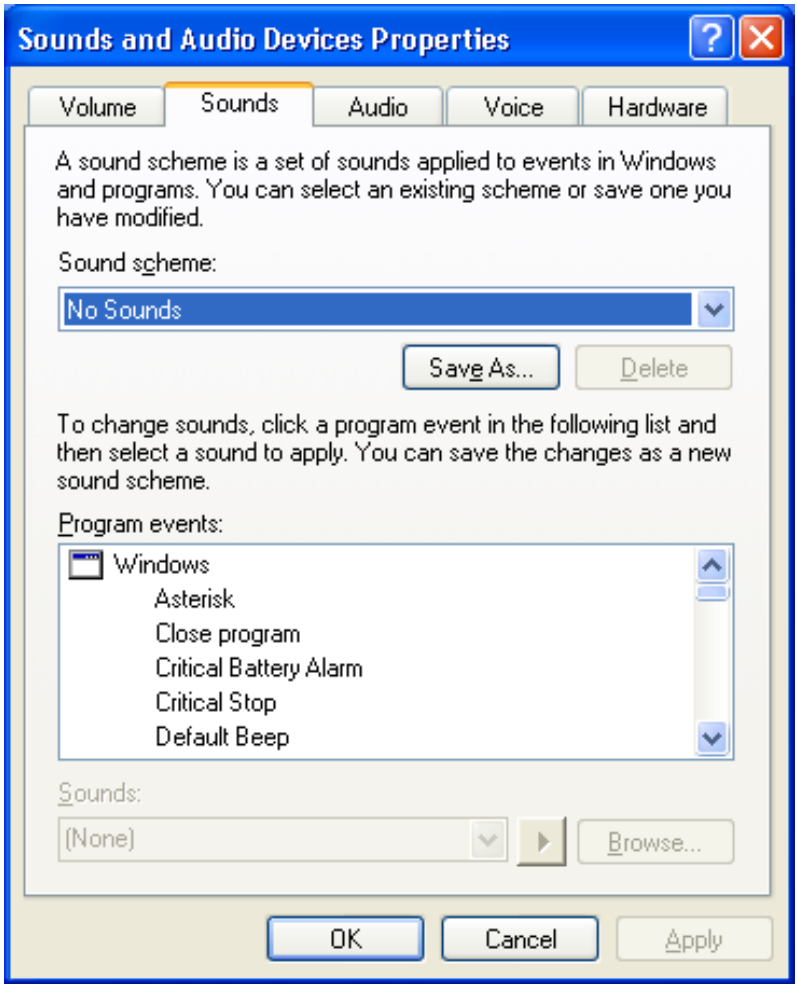
Software requirements: Windows XP Professional SP2 or SP3
Windows Vista Ultimate 32, Business 32,
Home Basic 32, Win 7 Pro 32 bits

1.2. Preparation before starting the installation

Disabling all sound sources

This setting is done on a computer with installed Video Player. It prevents Windows from adding additional audio signal to the broadcasted signal. You may skip it in case of using DeckLink or Stradis as output device.

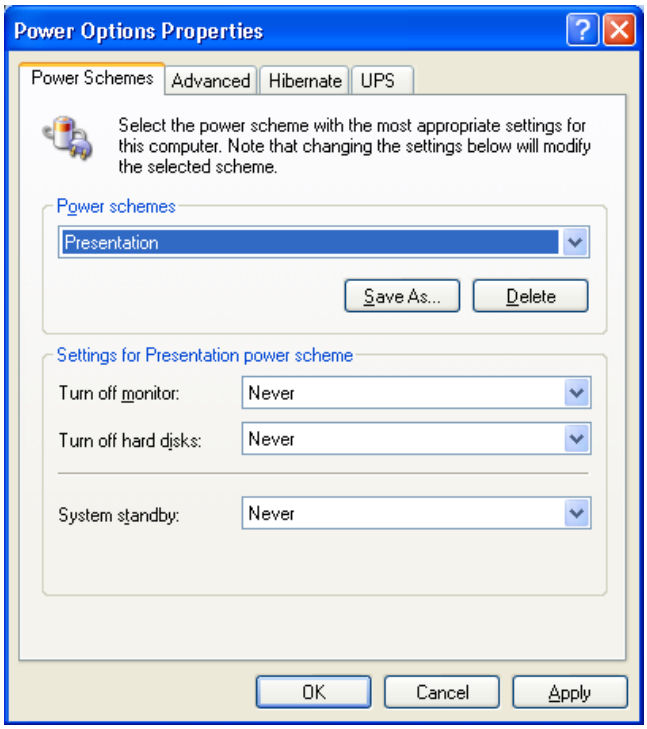
1. Open *Control Panel/Sounds and Audio Devices.*
2. Choose *Sounds* page.
3. Choose *No Sound* from Sound scheme.



Disabling Power options

This setting is done on a computer with installed Video Player on it. It prevents Windows from disabling some devices when they are not used for a long time.

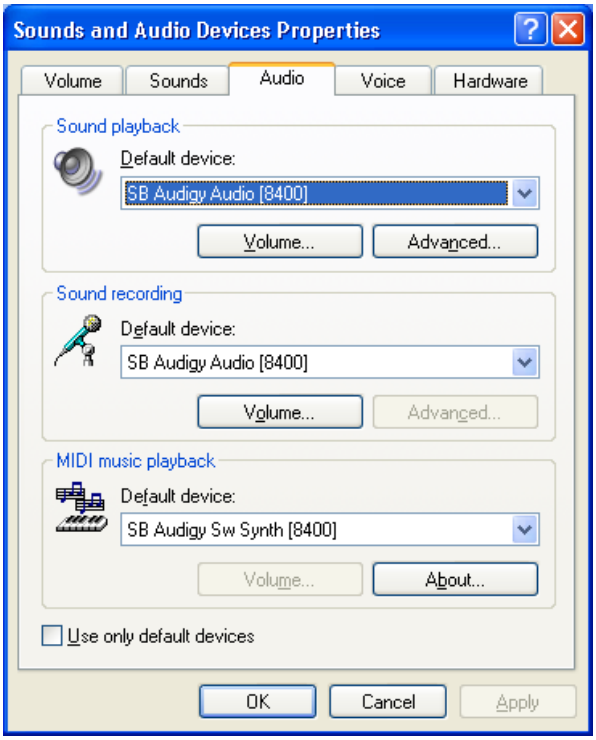
1. Open *Control Panel/Power Options.*
2. Choose *Presentation* from *Power schemes* page.



Checking that the default audio device is NOT DeckLink

This step is done on the computer with installed VideoPlayer using DeckLink as an output device. Sometimes Windows sets DeckLink as a default audio device and this may cause the playing to stop! In this case you must set the sound card as default audio device.

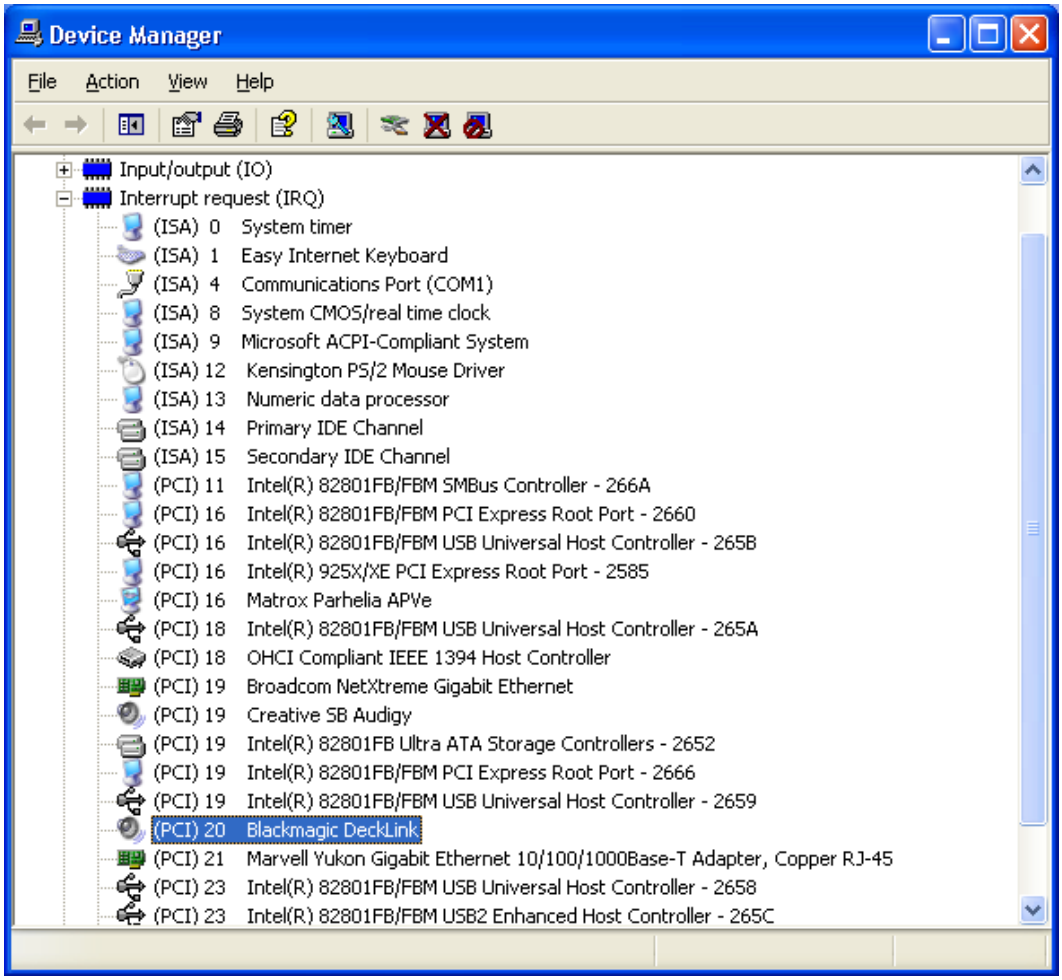
1. Open *Control Panel/Sounds and Audio Devices.*
2. Open *Audio* page.
3. Make sure that on *Sound playback, Sound recording* is NOT written *DeckLink Audio device*.



Checking the IRQ number on a DeckLink

This step is done on the computer with installed VideoPlayer using DeckLink as output device. Depending of the used slot DeckLink may share the IRQ number with other fast devices like video card, SATA controller, network or others. In this case different problems may occur. You should move DeckLink to another slot. To check the IRQ:

1. Open *Control Panel/System.*
2. Open *Hardware* page.
3. Click *Device Manager*.
4. Choose *View/Resources by connection.*
5. Open *Interrupt request (IRQ)* node and check IRQ sharing on DeckLink.

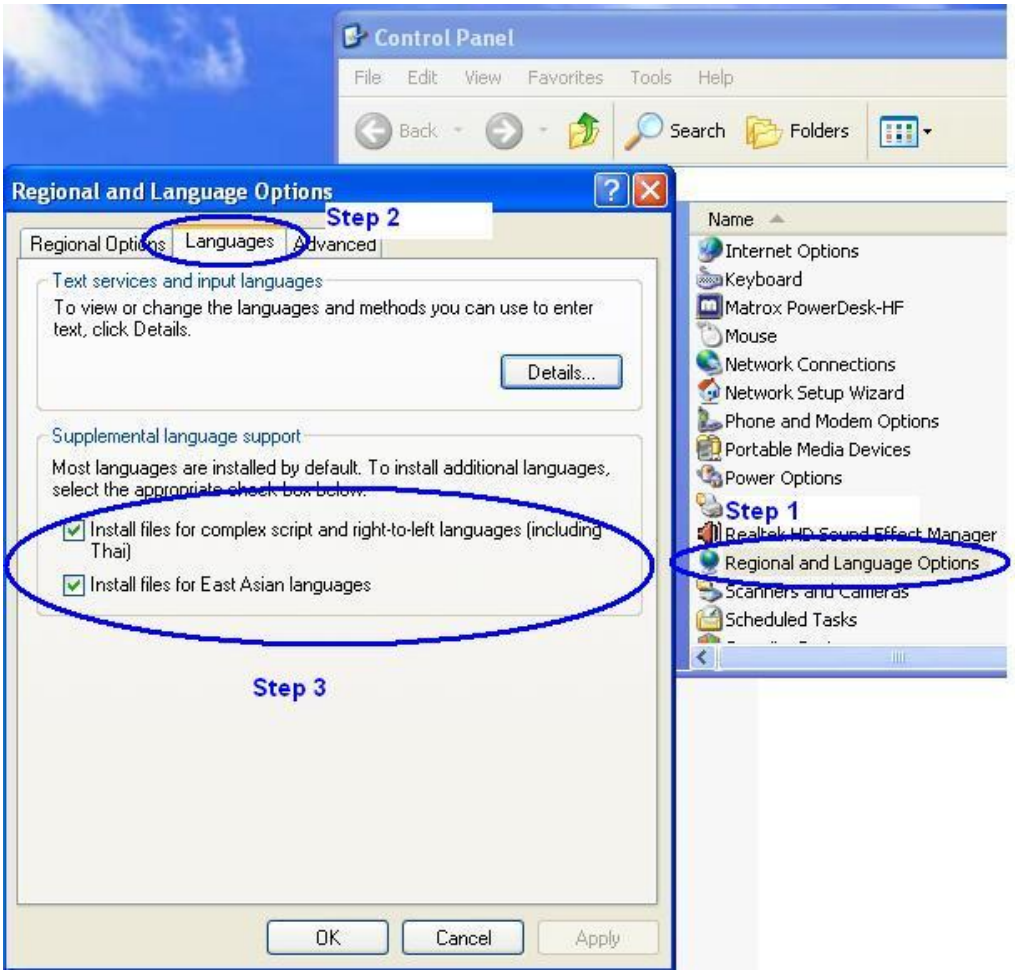

Device Manager
File Action View Help
Input/output (IO)
Interrupt request (IRQ)
(ISA) 0 System timer
(ISA) 1 Easy Internet Keyboard
(ISA) 4 Communications Port (COM1)
(ISA) 8 System CMOS/real time clock
(ISA) 9 Microsoft ACPI-Compliant System
(ISA) 12 Kensington PS/2 Mouse Driver
(ISA) 13 Numeric data processor
(ISA) 14 Primary IDE Channel
(ISA) 15 Secondary IDE Channel
(PCI) 11 Intel(R) 82801FB/FBM SMBus Controller - 266A
(PCI) 16 Intel(R) 82801FB/FBM PCI Express Root Port - 2660
(PCI) 16 Intel(R) 82801FB/FBM USB Universal Host Controller - 265B
(PCI) 16 Intel(R) 925X/XE PCI Express Root Port - 2585
(PCI) 16 Matrox Parhelia APVe
(PCI) 18 Intel(R) 82801FB/FBM USB Universal Host Controller - 265A
(PCI) 18 OHCI Compliant IEEE 1394 Host Controller
(PCI) 19 Broadcom NetXtreme Gigabit Ethernet
(PCI) 19 Creative SB Audigy
(PCI) 19 Intel(R) 82801FB Ultra ATA Storage Controllers - 2652
(PCI) 19 Intel(R) 82801FB/FBM PCI Express Root Port - 2666
(PCI) 19 Intel(R) 82801FB/FBM USB Universal Host Controller - 2659
(PCI) 20 Blackmagic DeckLink
(PCI) 21 Marvell Yukon Gigabit Ethernet 10/100/1000Base-T Adapter, Copper RJ-45
(PCI) 23 Intel(R) 82801FB/FBM USB Universal Host Controller - 2658
(PCI) 23 Intel(R) 82801FB/FBM USB2 Enhanced Host Controller - 265C

1.3. Set your own language

The step should be done only if you intend to use directories and video files name in your own language.

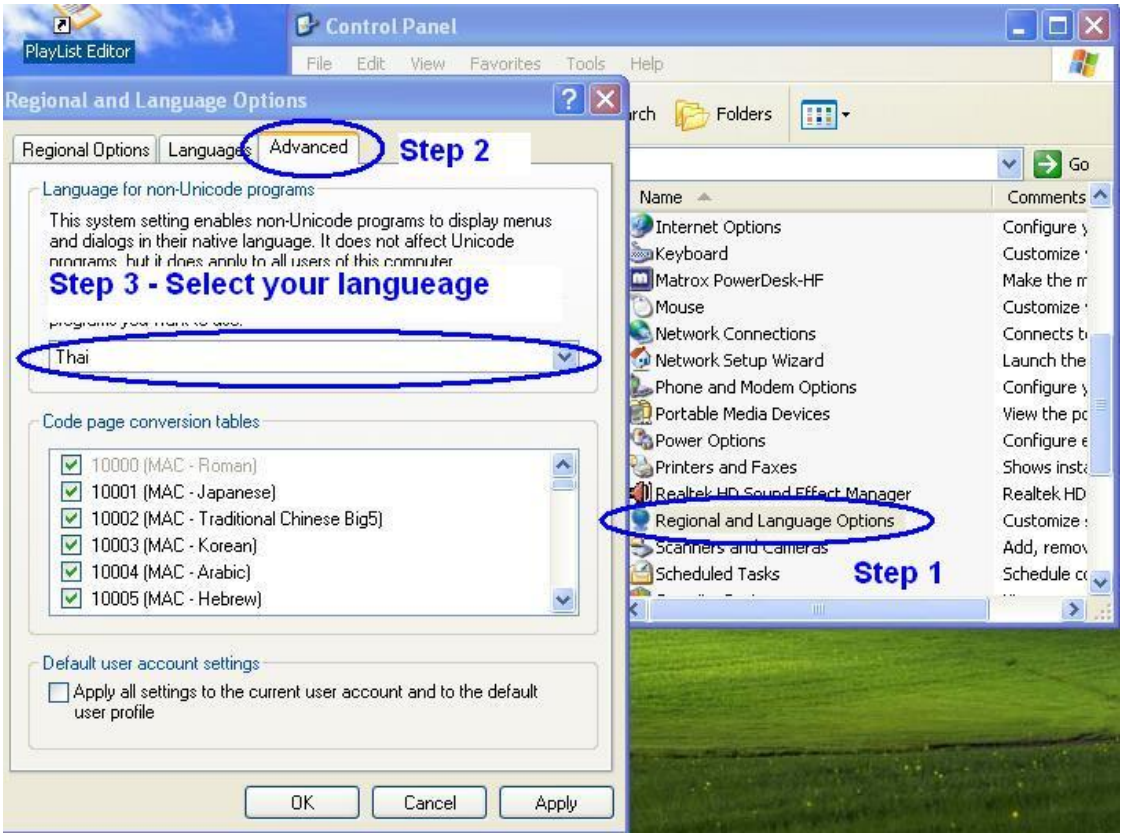
Windows XP

Step 1 (Optional) Open Control Panel – Regional Settings and follow the steps shown on the screenshot.


Control Panel
File Edit View Favorites Tools Help
Back Search Folders
Regional and Language Options
Step 2
Regional Options Languages Advanced
Text services and input languages
To view or change the languages and methods you can use to enter text, click Details.
Details...
Supplemental language support
Most languages are installed by default. To install additional languages, select the appropriate check box below.
Install files for complex script and right-to-left languages (including Thai)
Install files for East Asian languages
Step 3
OK Cancel Apply
Name
Internet Options
Keyboard
Matrox PowerDesk-HF
Mouse
Network Connections
Network Setup Wizard
Phone and Modem Options
Portable Media Devices
Power Options
Step 1
Regional and Language Options
Scheduled Tasks

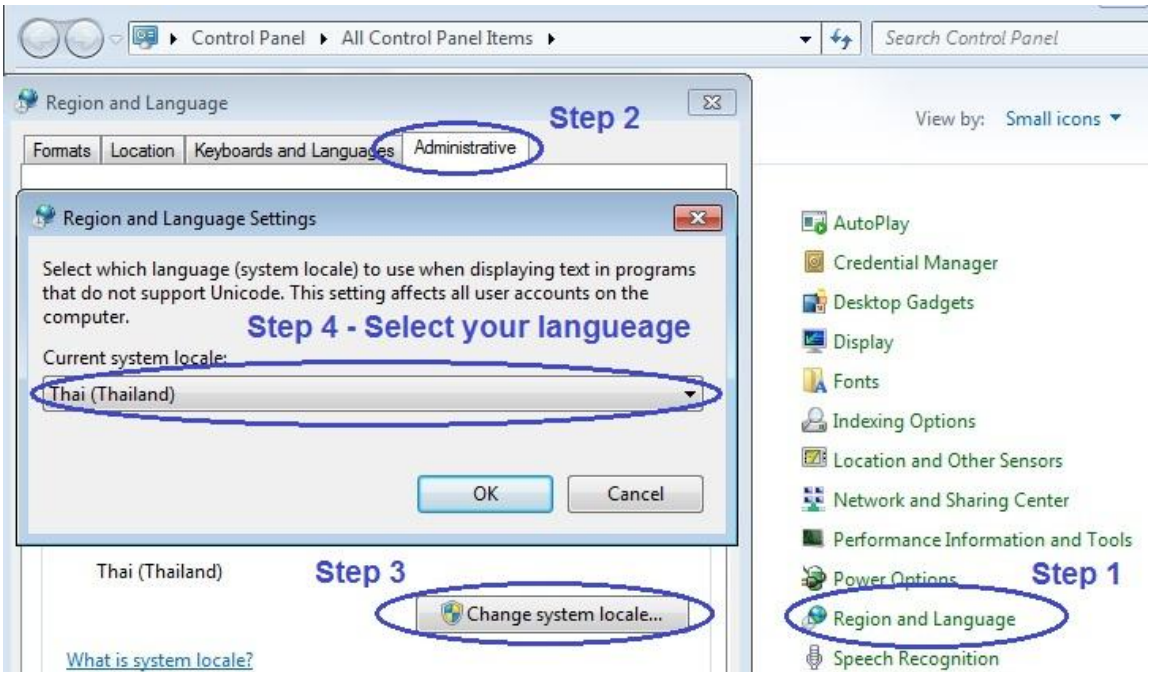
Note: The step is necessary only for East Asian languages and Arabic languages.

Step 2 Open Control Panel – Regional Settings and follow the steps shown on the screenshot.



Windows 7

Step 1 Open Control Panel – Regional and Language Settings and follow the steps shown on the screenshot.



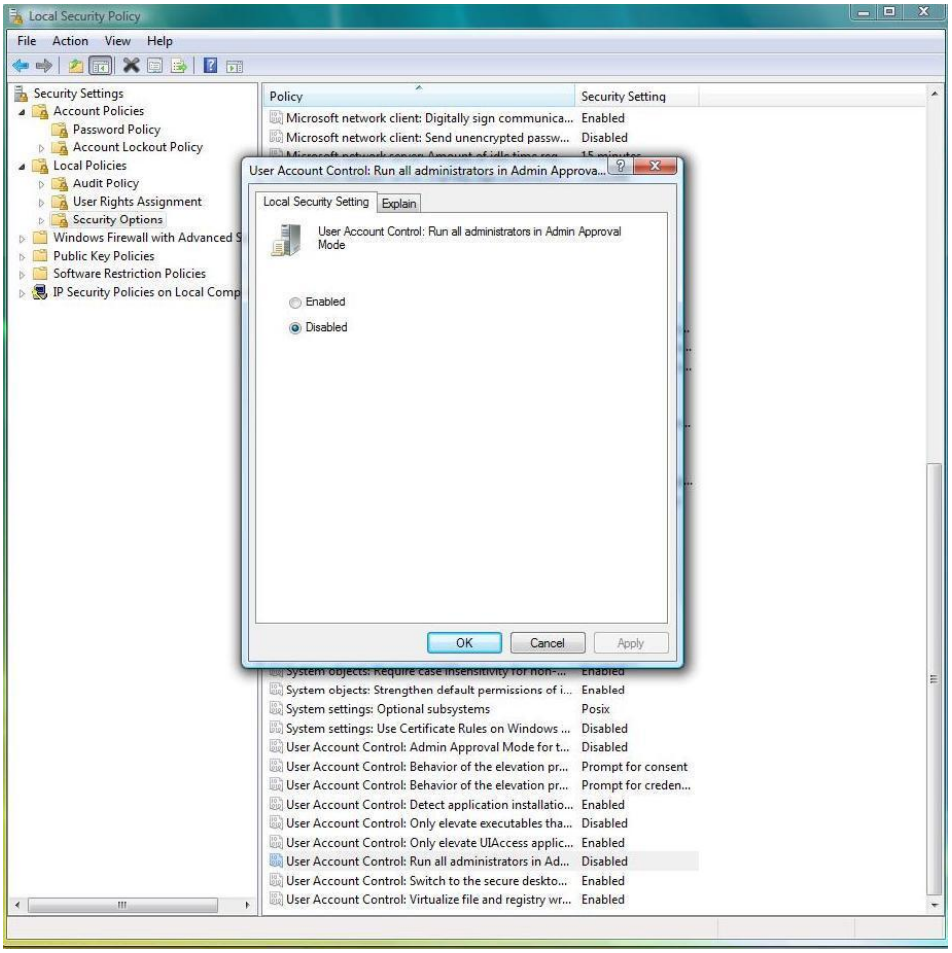
Preparation for Vista/Win 7 OS

For successful installation of the DVPlay software under Vista OS except the steps, needed for XP OS, you also need to:

1. Always use a 32 bit version of Vista OS. Tested OS are Vista HOME Basic, Vista Business and Vista Ultimate. You can use the PlayList Editor with any Vista OS version.

2. Install the original driver from the manufacturer of you video card. We detect that the embedded Microsoft driver, built in Vista OS, doesn't work with our software which results in crashing of the DVPlay software engine.

3. Disable *User Access Control* (UAC) like it is shown on the picture below BEFORE installing DVPlay software. You need to start *Control Panel*, and then to open *Administrative tools* and *Local Security Policy*. Under Vista Ultimate OS we change only the option, shown on the picture, but on other Vista editions the default option can be different. You can see below all the options of the UAC that should be set:


Local Security Policy
File Action View Help
Security Settings
Account Policies
Password Policy
Account Lockout Policy
Local Policies
Audit Policy
User Rights Assignment
Security Options
Windows Firewall with Advanced S
Public Key Policies
Software Restriction Policies
IP Security Policies on Local Comp
Policy
Security Setting
Microsoft network client: Digitally sign communica... Enabled
Microsoft network client: Send unencrypted passw... Disabled
User Account Control: Run all administrators in Admin Approva...
Local Security Setting
Explain
User Account Control: Run all administrators in Admin Approval Mode
Enabled
Disabled
OK
Cancel
Apply
System objects: Require case insensitivity for non-... Enabled
System objects: Strengthen default permissions of i... Enabled
System settings: Optional subsystems Posix
System settings: Use Certificate Rules on Windows ... Disabled
User Account Control: Admin Approval Mode for t... Disabled
User Account Control: Behavior of the elevation pr... Prompt for consent
User Account Control: Behavior of the elevation pr... Prompt for creden...
User Account Control: Detect application installatio... Enabled
User Account Control: Only elevate executables tha... Disabled
User Account Control: Only elevate UIAccess applic... Enabled
User Account Control: Run all administrators in Ad... Disabled
User Account Control: Switch to the secure deskto... Enabled
User Account Control: Virtualize file and registry wr... Enabled

We highly recommend the real broadcasting to be executed under Windows XP. Consider using Vista/Win 7 only for learning purposes. Our tests show that using the DVPlay software under Windows XP takes about 20 % of the CPU usage and about 35 % on other computers under Vista. In some situations like playing, concurrent copying of video files or starting a program on a Video Server you may experience up to 55-70 % CPU usage and then you may need this CPU power which is otherwise "eaten" from Vista\Win 7.

1.4 General description of the installation process

You must download and start *InstallDVPlay6.exe*. DVPlay software uses a standard Windows Installer program. At the end of the installation it starts FFDShow and Elecard codec. FFDShow is a free codec and you should turn off ALL the options on ALL screens, except *Uncompressed* as shown below. If you avoid this warning you may not be able to start using the DVPlay LTD software!

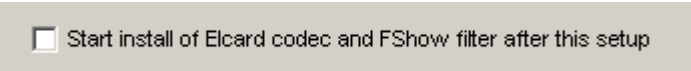
Installation and registration are valid for the Windows account on which you install the software and not for all Windows accounts. Recommended option is to create an account with administrative privileges, install the software under this account and use the DVPlay software only with this account.

Elecard codec is a demo version, so you will get a note like a green square in the output video signal. When you buy DVPlay LTD software you will receive unlocking code and instructions how to remove this note.

Note: If you want to test the DVPlay LTD software by carrying out real broadcasts, it will be best to install it on a freshly installed Windows OS without any other video and sound codecs previously installed.

If you want to test DVPlay LTD software and you are not sure which option to choose, it is best to use the default one. In this way you will install DVPlay LTD TV software plus DVPTitles.

If you reinstall DVPlay and you have already installed Elecard and FFD Show filter you may turn off this option:



REQUIREMENTS FOR SUCCESSFUL INSTALLATION

Due to the nature of Windows it is possible that your current Windows installation has other video or sound codec or programs installed which may prevent DVPlay software from working. It is very hard to find which program stops the DVPlay software and even if you find it and remove it you may not solve the problem as many of the problem files will not be removed. The **best solution is to do a new clean installation of Windows OS.**

We recommend you to install the DVPlay software on your current Windows OS. If it works fine, you may start using it. If it doesn't work, please be sure to follow the next steps, which are obligatory for the smooth work of the software

1. Format your C partition.
2. Install a new Windows XP professional OS with SP2 on partition C. You should use ONLY XP Professional edition. Media Center, Home edition and other versions of Windows XP are not tested with the DVPlay software and we can give you no guarantees about its proper functioning with them. SP 2 is **absolutely** obligatory as it provides support of DirectX 9
3. Install the drivers. If you use BlackMagic you must download the driver from the official DVPlay site. We have received reports of malfunctioning of the DVPlayer when other drivers are used.
4. Tune Windows XP as shown bellow.
5. Install DVPlay software. When you install FFDShow you must turn off ALL settings except **Uncompressed**. If you don't follow this step you may not be able to start the DVPlay software!
6. Don't install any other software especially video and sound codecs.

If you want only to test the software and you don't have Matrox or BlackMagic card, your video card must meet the following requirements:

- to be at least a middle class video card
- to support DirectX 9.0

Usually ANY video card produced after 2007 meets these demands. Otherwise you will not be able to see any picture on your TV output. However you can test all of the features of the DVPlay software and monitor the result using Preview module.

Back to contents

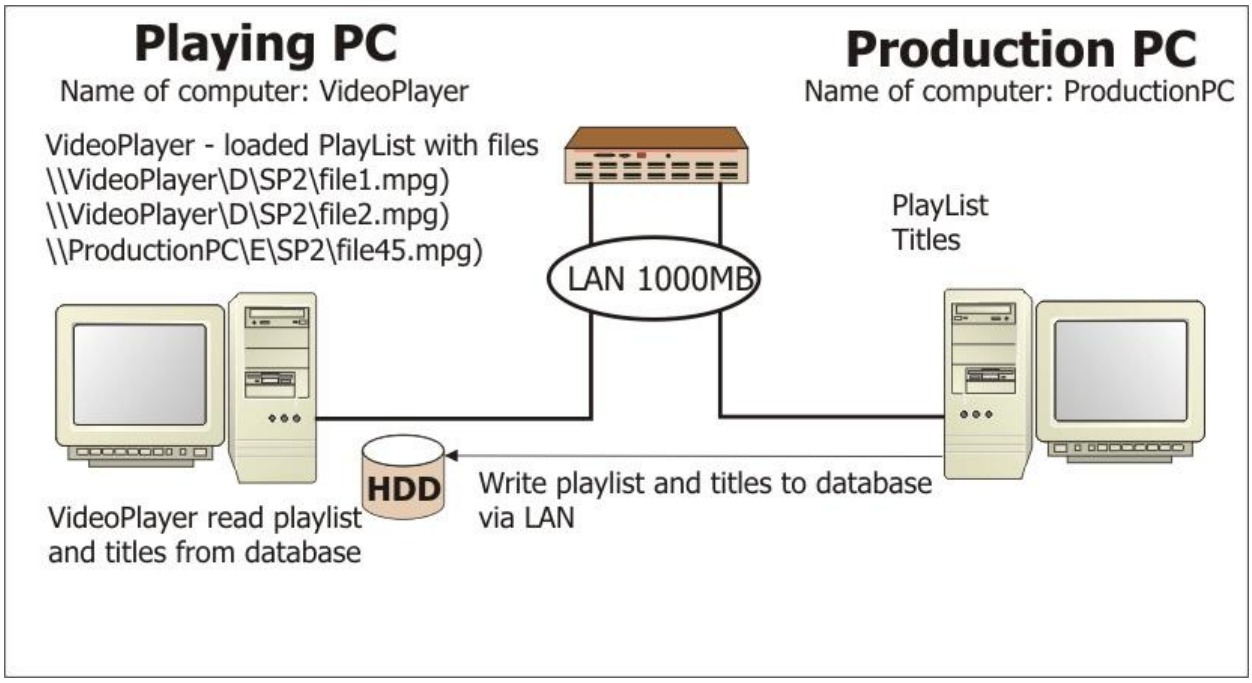
1.5. DVPlayer scheme

You need a Playing PC and a Production PC, connected with each other via LAN connection. The Production PC is used for making MPEG files (video capture using external program) and arranging these files in playlists (using PlayList module). You can also use the same PC for designing titles.

There are two options in regard to the physical position of the files.

- All files can be on the video player's HDD
- All or some of the files can be shared via LAN connection with any other PC. You will make sure that the files will be available when they must be played!

In both cases you don't need to copy or move files. The only requirement for creating a playlist is to add files with a full network path – for example \\VideoPlayer\D\SP2\file2.mpg, \\ProductionPC\E\SP2\file45.mpg, not like D:\Sp2\file2.mpg.



When you start PlayList Editor on the Production PC you will be asked for the path to the database – usually \\VideoPlayer\Database\DVPData.mdb. You must share this directory with full write permissions.

When using the Light and the Pro versions of the DVPlay software you can create playlists ONLY on the VideoServer. After buying and registering the TV version of the DVPlay software you can use the program for creating playlists and performing verifications on 2 more computers.

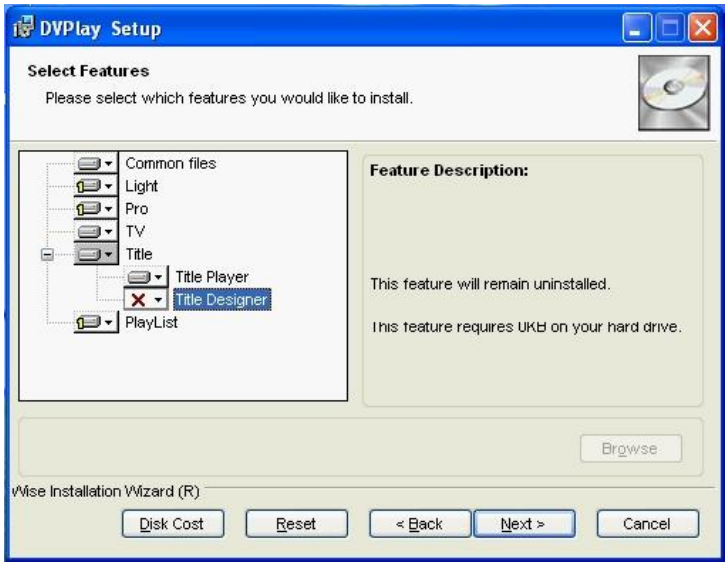
We strongly recommend you before start using the DVPlay software in real broadcasting conditions to make a test of it for at least 1 week. During that time you have to work with the DVPlay software in the same way as if it were really broadcasting real files in a 24/7 working mode.

1.6. Installing the Video Player

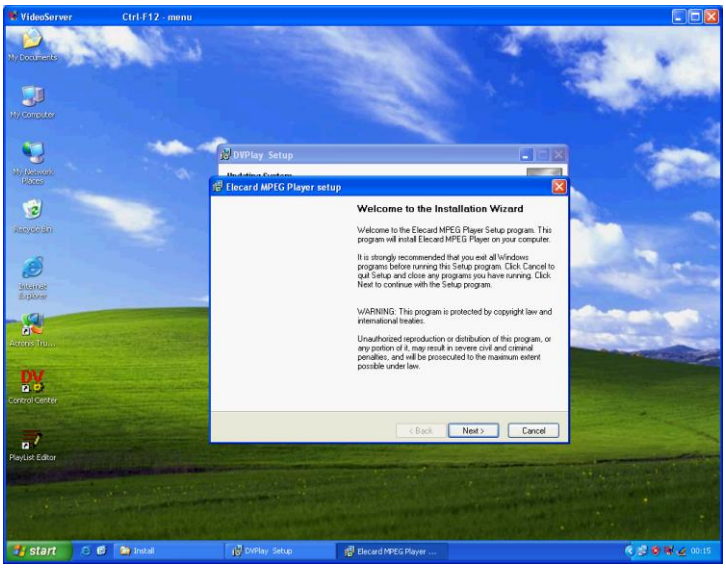
STEPS FOR INSTALLING DVPLAY SOFTWARE

By following the next steps you will install *Video Player, Title Player, File Manager*, *RS-232control, DTMF tones* and *PlayList Editor.*

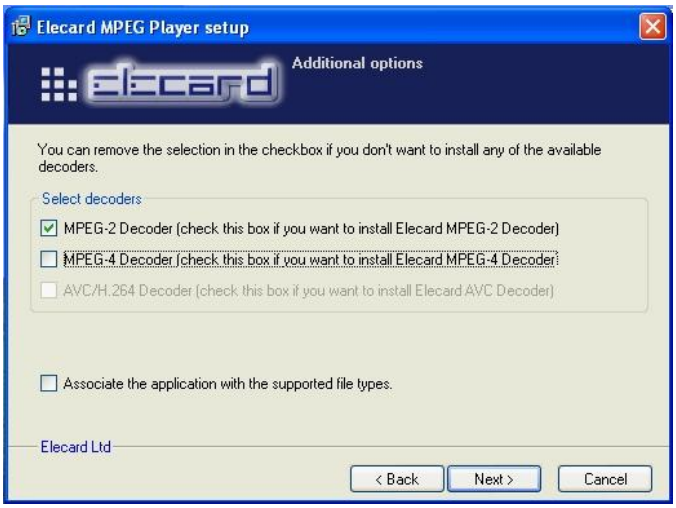
1. Start *InstallDVPlay6.exe* or *InstallDVPlay6_Demo.exe*.
2. Click *Next.*
3. Choose *I accept the license agreement* and click *Next*.
4. Click *Next.*
5. Choose the feature shown on the picture below and click *Next*. Note that *TitleDesigner* is NOT being installed in this case, because it originally works on another computer!



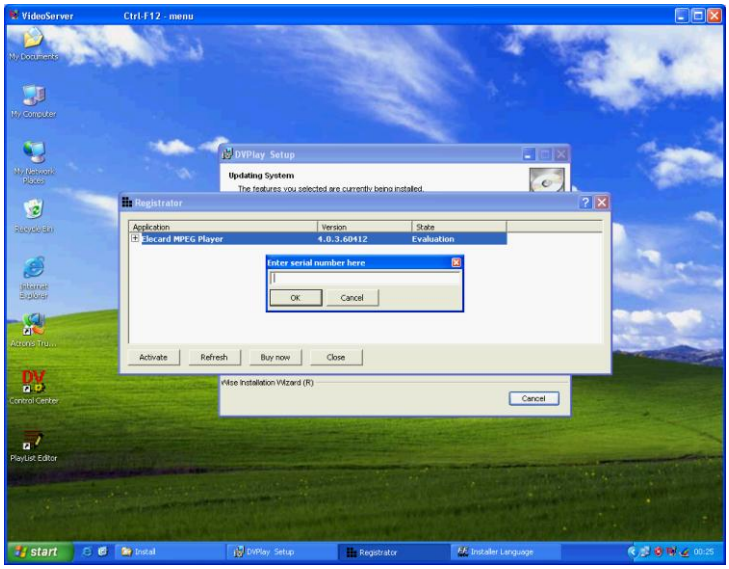
6. Click *Next.*
7. Click *Next* and wait till the files are copied.
8. Click *Next* as shown on the screenshot below.


VideoServer
Ctrl-F12 - menu
DVPlay Setup
Elecard MPEG Player setup
Welcome to the Installation Wizard
Welcome to the Elecard MPEG Player Setup program. This program will install Elecard MPEG Player on your computer.
It is strongly recommended that you exit all Windows programs before running this Setup program. Click Cancel to quit Setup and close any programs you have running. Click Next to continue with the Setup program.
WARNING: This program is protected by copyright law and international treaties.
Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
< Back
Next >
Cancel
start

9. Click *Next.*
10. Check *Yes, I agree with all the terms of this license agreement* and click *Next*
11. Click *Next* and again *Next.*
12. Uncheck *MPEG-4 decoder (*check this box if you want to install Elecard MPEG-4 decoder*)* and *Associate the application with the supported file types* as shown on the screenshot below. Click *Next*.

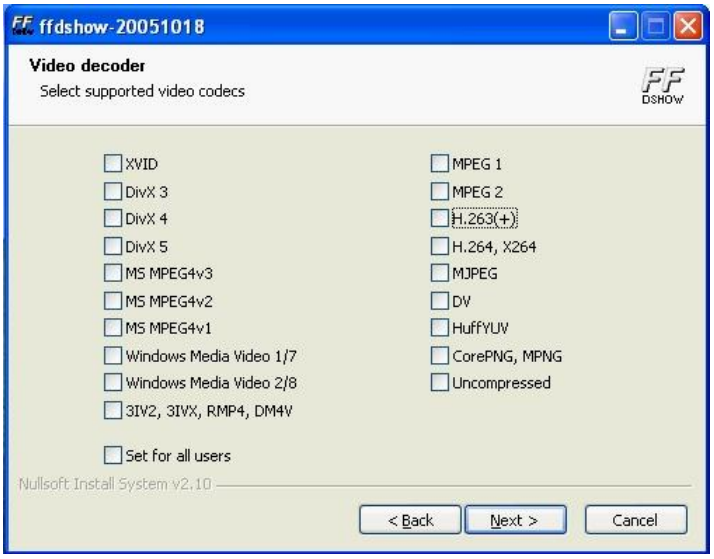

Elecard MPEG Player setup
Additional options
You can remove the selection in the checkbox if you don't want to install any of the available decoders.
Select decoders
MPEG-2 Decoder (check this box if you want to install Elecard MPEG-2 Decoder)
MPEG-4 Decoder (check this box if you want to install Elecard MPEG-4 Decoder)
AVC/H.264 Decoder (check this box if you want to install Elecard AVC Decoder)
Associate the application with the supported file types.
Elecard Ltd
< Back
Next >
Cancel

13. Click *Next* and wait till the files are copied.
14. Click *Finish.*
15. Now you have to register Elecard. Choose *Elecard MPEG Player* from the table and click *Activate.* Insert the serial number that you have already received with your registration approval of DVPlay LTD software. Click *OK* and close the *Registration* window.

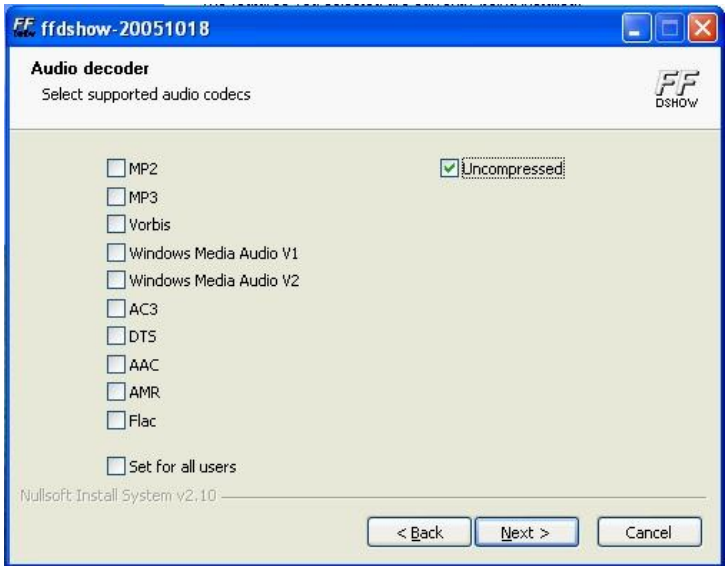


16. Activate *Installer Language* and click *OK.*
17. Click *Next.*
18. Click *I agree.*
19. Click *Next.*

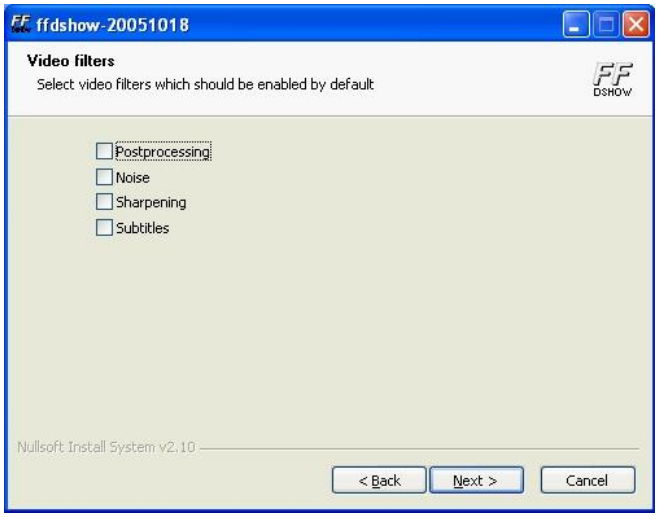
20. Uncheck all the features as shown on the screenshot below and click *Next.*



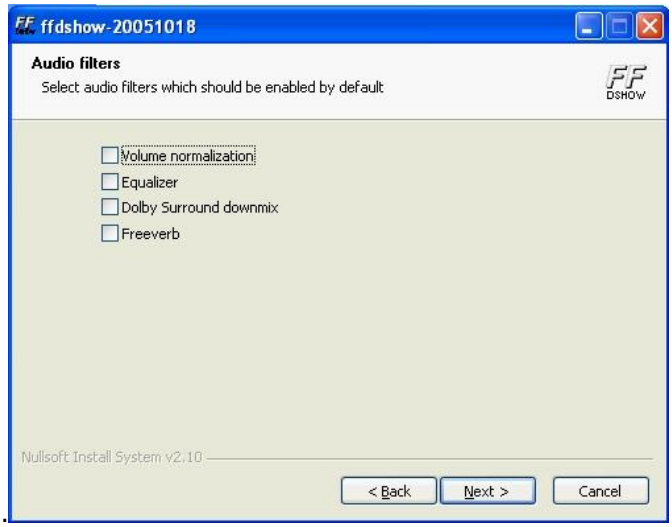
21. Uncheck all the features except *Uncompressed* as shown below. Click *Next.*



22. Uncheck *Postprocessing* and click *Next* as shown below.



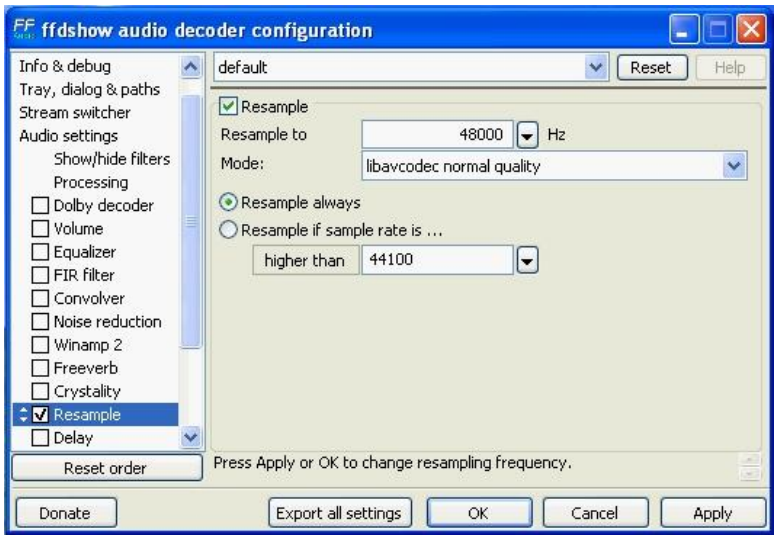
23. Uncheck *Volume normalization* and click *Next* as shown below.



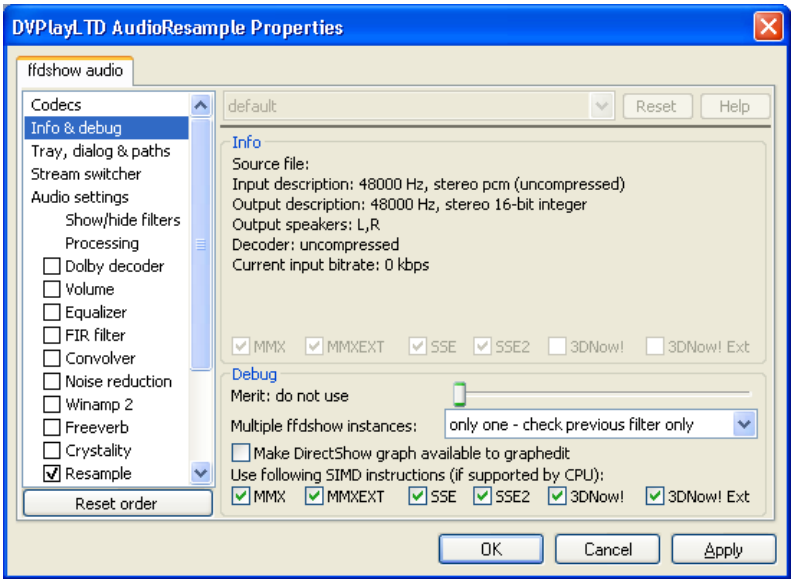
24. Click *Next.*
25. Click *Install* and wait till the files are copied.
26. Click *Next* and *Finish.*
27. Click *Finish*.

Additional setup of FFDShow

1. Choose *Start/All Programs/FFDShow/Audio decoder configuration*
2. Click *Resample,* check *Resample* and choose *Resample to* 48 000 Hz as shown on the screenshot below.



3. Click *Info & debug* and move the slider to the left as shown below.



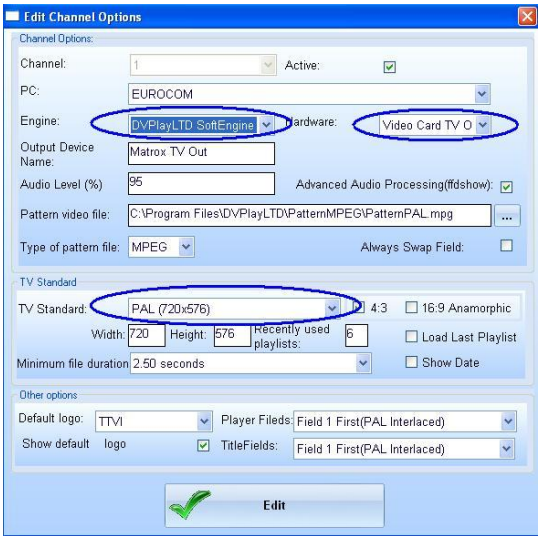
4. Click *OK.*
5. Restart the PC to make it accept the new merit of FFDShow!

Starting the DVPlay LTD software for the first time

You should have these icons on your desktop:

. **Digital video play** – main program used to generate the video signal and the overlay title.
. **PlayList Editor** – used to create the playlists.
. **Title Designer** – used to make the title design.

1. Start *Digital Video Play* from the icon on the desktop.
2. Click *OK* to the message *This personal computer starts for the first time…*
3. Choose data format and click *Save*. Click *OK.*
4. Start again *Digital Video Play* from the icon on the desktop. Click *OK* to the message *Program can NOT detect TV Standard! Video Player can NOT start until you set it!*
5. Choose *TV standard* from the drop-down list *Standard for TV*.



6. Close the *Video Player Options* window. Wait for the layout to be loaded.
7. Close *Video Player* and *Control Center*. Close all the DVPlay LTD software modules.

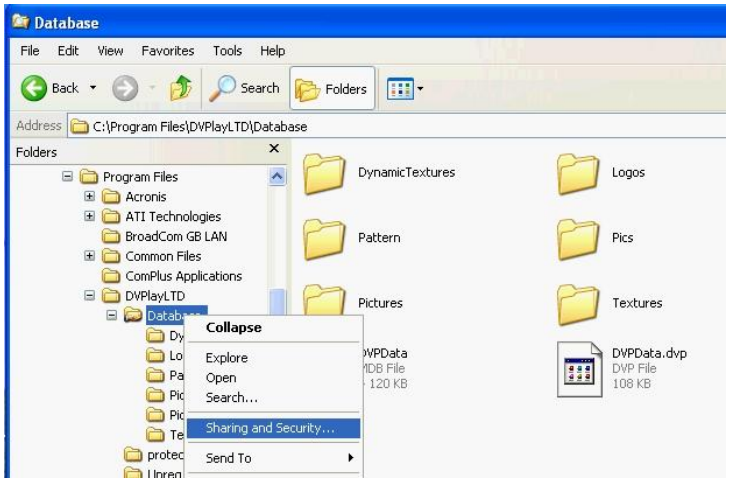
If you are able to see the picture in the preview module this means that the installation of the DVPlay software successfully completed.

1.7. Installing TitleDesigner and PlayList Editor on the Production PC

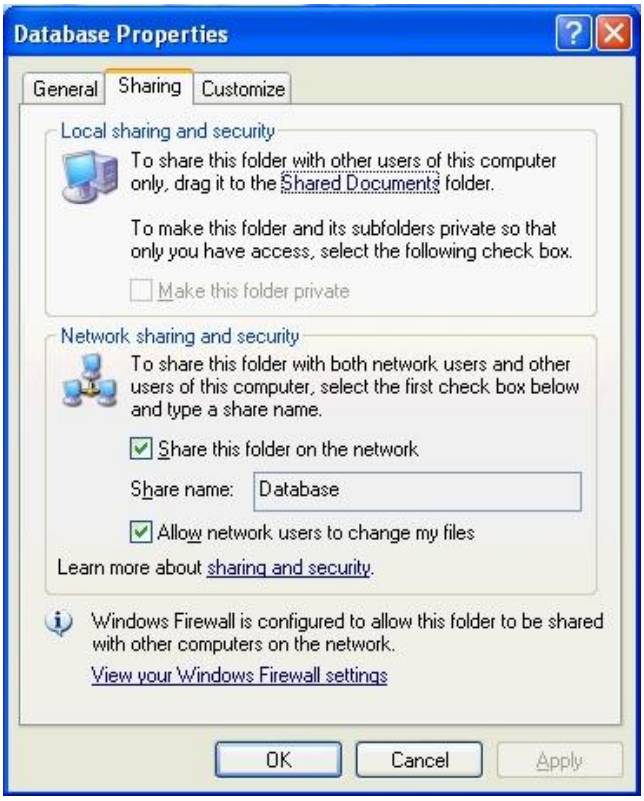
Usually the TitleDesigner and the PlayList Editor are installed on a separate computer connected to the computer with the installed Video Player by fast network (LAN 1 GB). Both computers use one and the same database.

Sharing Database

1. On the computer with the Video Player start the Windows Explorer and go to C:\Program Files\DVPlayLTD\DataBase
2. Right click *Database* folder and choose *Sharing and security* from the drop-down list.

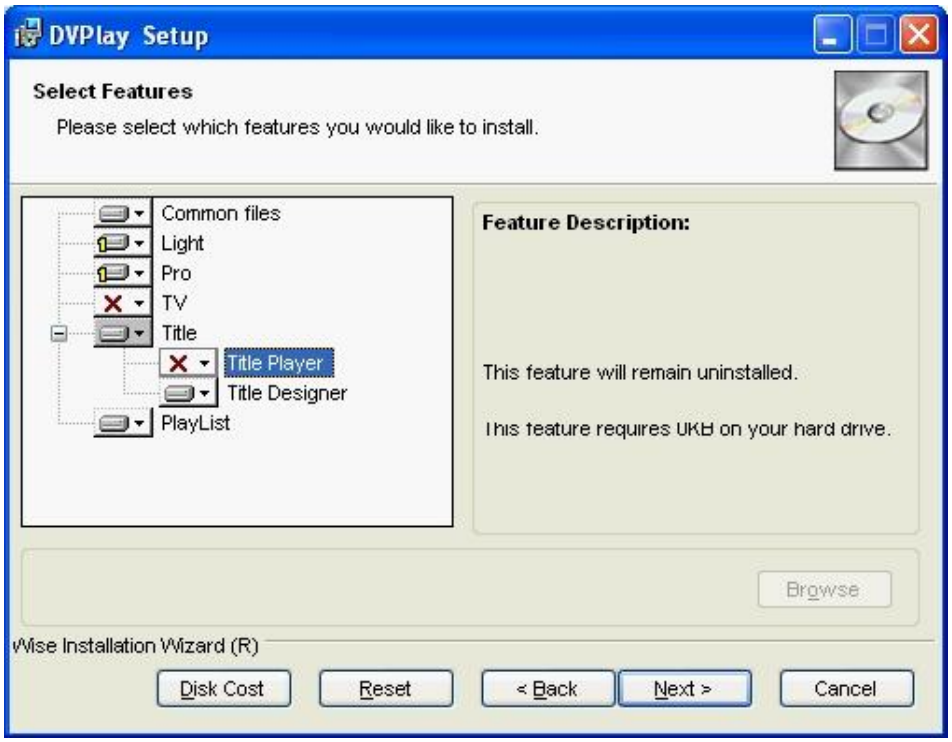


3. Check *Share this folder on the network* and then *Allow network users to change my files* as shown below. Click *OK.*


Database Properties
General
Sharing
Customize
Local sharing and security
To share this folder with other users of this computer only, drag it to the Shared Documents folder.
To make this folder and its subfolders private so that only you have access, select the following check box.
Make this folder private
Network sharing and security
To share this folder with both network users and other users of this computer, select the first check box below and type a share name.
Share this folder on the network
Share name: Database
Allow network users to change my files
Learn more about sharing and security.
Windows Firewall is configured to allow this folder to be shared with other computers on the network.
View your Windows Firewall settings
OK
Cancel
Apply

Installing TitleDesigner and PlayList Editor on a second computer

1. Start *InstallDVPlay5.exe* or *InstallDVPlay5_Demo.exe*.
2. Click *Next.*
3. Choose *I accept the license agreement* and click *Next*.
4. Click *Next.*
5. Choose the feature as shown below and click *Next*.



6. Click *Next, Next, Next.*
7. Install Elecard and FFDSshow choosing *Next, Next, Next* …until *Finish* appears.
8. Start *PlayList Editor* from the icon on the desktop.
9. Click *Yes* to the question *Can NOT find database file! Do you want to choose database file now?*
10. Choose *Shared via LAN database file* on the *VideoServer* menu.

- DVPlay software is offered in the following versions:
  - Light
  - Pro
  - TV
  - HD
- DVP Titles consists of
  - Title designer
  - Title Player
- DV News Editor

Please find below a list of modules and kinds of versions:

Module	Description	Light	Pro	TV	HD
ControlCenter	A module that commands the other modules. Consists of sub modules	x	x	x	x
	Events - Shows a list with received commands and the status of the player.	x	x	x	x
	E-mail notification - Sends e-mails when events occur.	-	-	x	x
	MyCommand - saves and executes the same commands as the ones executed via keyboard or mouse.	-	-	x	x
Video Player	MPEG-2 player used for playing files	x	x	x	x
	Ability to Show logo	-	x	x	x
	Play HD files	-	-	-	x
Playlist	For making playlists local on the video player server	-	x	x	x
	For making playlists from another computers connected to player via LAN	-	-	x	x
Meta tag library	Allows you to put down additional information about your video files and later for search in this information.	-	-	x	x
Schedule	Allows creating schedule to be executed on a regular time.	-	-	x	x
Preview	Indicates the output signal on the PC	x	x	x	x
RS232	Used to control external devices by the serial (RS-232) or the parallel ports of the PC.	-	-	x	x
DTMF tone	Receives DTMF tones and sends commands to the player or to another module.	-	-	x	x

* TV version allows the playlist program to be installed on a server and on one more PC.
* HD version - all the features of the TV version and option to play HD video files.

1.8. Applying changes to Windows localized OS (non-English version)

There are few changes you should make if you use localized version of Windows OS. Please apply the following steps:

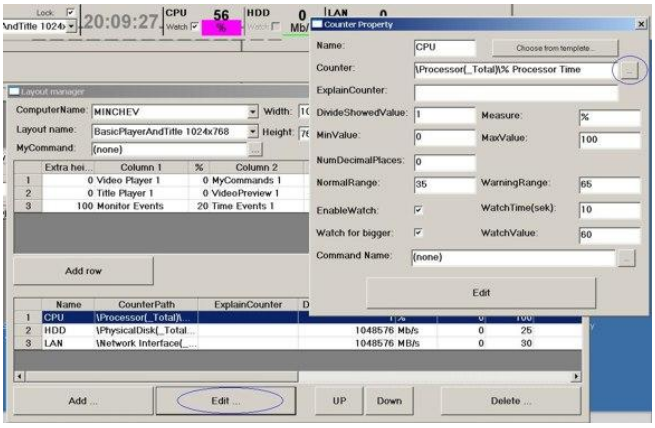
1. From *Control Panel* menu click *Set Layout.*

2. Select row from *Counter* drop-down list.

3. Click *Edit*.

4. Click and change the parameters you want to be displayed in your native language.

5. Repeat the same steps for the other counters.



1.9. Upgrading the DVPlay software

There are some basic points about upgrading which you need to know. To upgrade the software you need to remove the current version from Add/Remove and afterwards to install the new version. The Registration for the old version will be valid for the newer version too and you will not need a new un-lock code if the major version of the DVPlay software is under the same revision. For example if you upgrade from 5.10 to 5.15 the major version is in the same revision and your registration will be valid. But if you upgrade from revision 5.15 to revision 6.00 you will be asked for a new registration.

You don't need to uninstall and then install again Elecard and FFDShow. When you remove the old version, Elecard and FFDShow are not removed. When you install the new version it will be better to turn off the following option.

Database file is the next important theme when discussing the upgrade of the software. When you remove the old version the database file, which is usually in C:\Program Files\DVPlayLTD\Database\DVPData.mdb will not be removed. All the playlists, titles, logged played files, all MyCommand and scheduled tasks remain saved in this file. It is possible that the new version would change the structure of this file and you won't be able to use it with the new version. In this case you will need to create a new empty database file and insert in it all the data again. For more details about the process of upgrading please visit our web site.

1.10. Multichannel

The versions after DVPlay v6.00 allow you to start up to four channels on one machine at the same time. For this purpose you will need a powerful CPU like i5-2500. You can use the following combination of hardware:

2,3 or 4 Stradis hardware cards

1 channel with DeckLink card (SDI), 1 channel with Matrox card (analog) and 1 or 2 channels with Stradis hardware cards (analog or SDI).

1.11. Backup solution

One of the major requirements of the TV channel broadcasting is the providing of unbreakable and stable broadcast sessions. Our experience shows that when using the DVPlay software you can face two general problems:

- Hardware malfunction.
- Software malfunction.

For creating a backup solution you will need a second PC with installed DVPlay software on it connected to a matrix and ready to be used in a real broadcast only with a switched mixer. In case of malfunction the help of an operator is needed. He has to load the playlist, to start the playing file and to turn on the mixer. The database file should be on a file server and all the files should be inserted in the playlist via LAN sharing. In this way the address of the file remains the same for all LAN connections – for example \\FileServer\SP2\file.mpg. The primary PC and the backup PC should use one and the same database file, located on the FileServer.

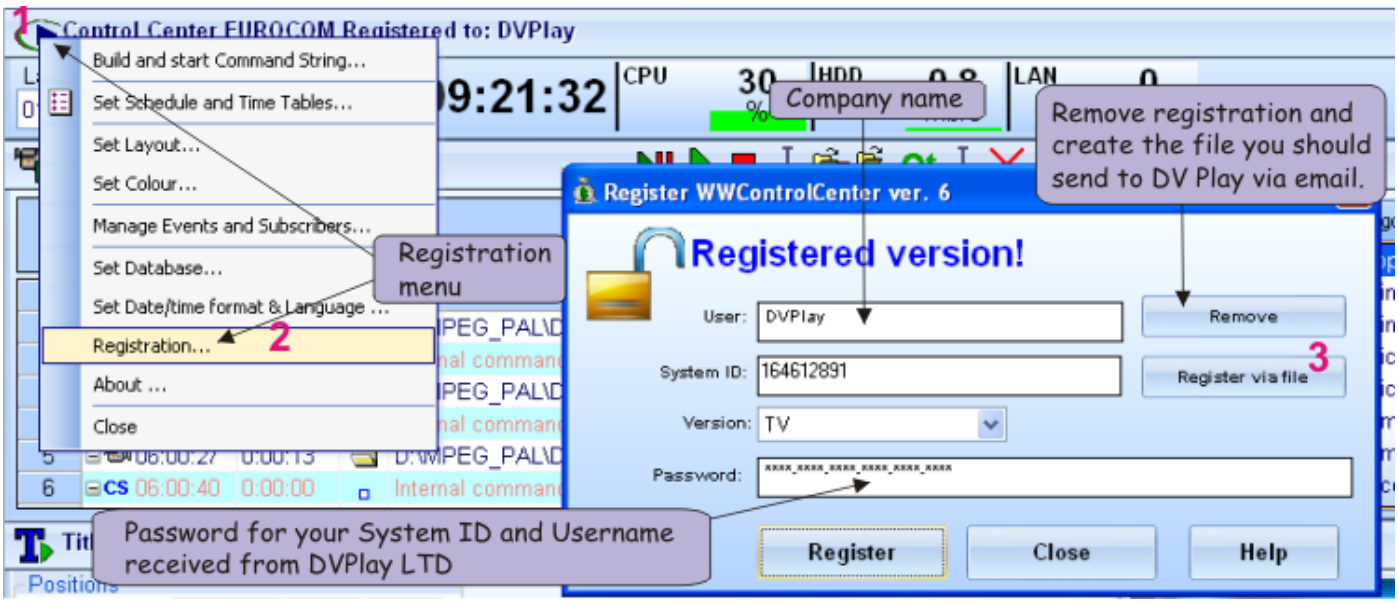
For creating a backup solution except a second PC you will also need an additional DVPlay software license, which in this case will be available with a 20 % discount off the original cost.

2. DVPlay Software Registration

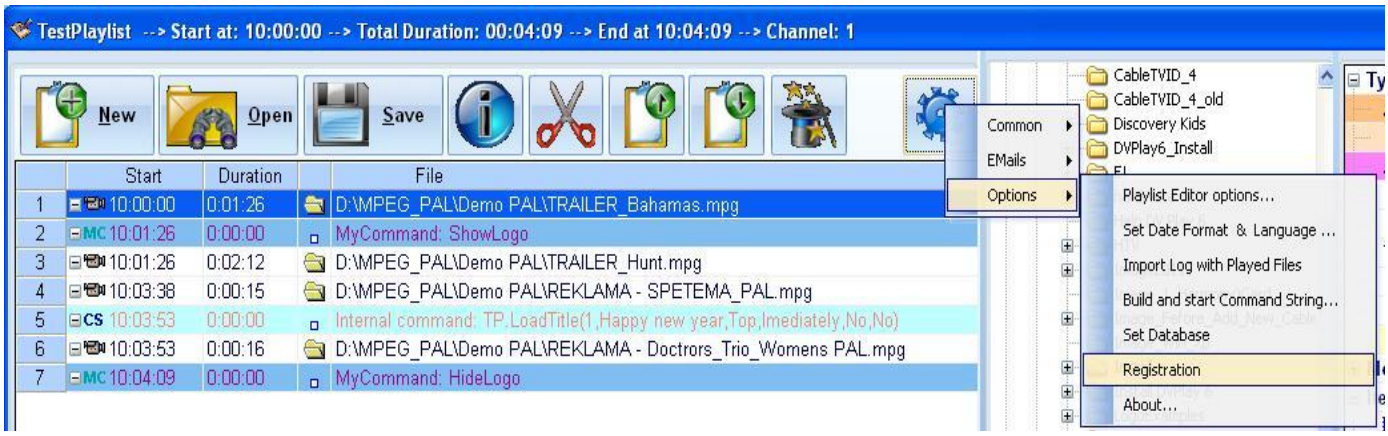
DVPlay LTD ver.6 requires registration that is unique for the used hardware. This means that the software provides a SystemID, which can be used only with the current hardware and for obtaining it you must receive an e-mail, containing the unlock password from the DVPlay team. The following modules require registration:

- ControlCenter
- VideoPlayer
- Playlist
- RS-232
- FileManager
- NewsEditor

Follow the steps shown in the screenshot to register at once all DV Play modules using the provided from DV Play company unlock file.



You can see the registration menu of DV PlayList Editor shown on the screenshot below:



Note: If you change your hardware this may lead to a change of your SystemID and the registration may become invalid. In that case you should remove the registration from all the modules with the Remove button and send the file, created during the removal, to DVPlay LTD office, as in such way proving that you have removed the registration. You must repeat this operation for all the modules. When you remove the registration your modules go into demo mode, in which you can operate until you receive your new registration. Usually the new registrations are sent to the customers in a period of maximum 24 hours after demanding them.

If you reinstall the DVPlay software, using the same OS and you don't change any hardware inside your PC, you will not need a new registration.

The common process of registration is as follows:

- Sending money via bank transfer or PayPal according to the instructions, received in a sent by DVPlay LTD e-mail.
- Installing the full version of the DVPlay software from a file.
- Sending SystemID and requesting registration.
- Receiving an unlock file and registering the software.

It is **highly recommended** to register the software **BEFORE** reaching the allowed limit of 50 starting times, because if for example you add a new HDD to you system, the SystemID will change and your current registration will become invalid and the limitation of the unregistered version will be applied right away. If you **register the software, when it has reached 20** of its allowed 50 starting times, you will have **remaining 30 (50-20=30) starting times**, and after each one of them you will have the possibility to use the full resources of the software until receiving a new unlock password.

The only way to restart the counting of the number of the allowed starting times is to reinstall Windows OS after formatting partition C.

Back to contents

3. Video Player 6

3.1. General description of the interface

The Video Player is designed to play files, arranged in playlists. It is possible that after loading the pre-arranged playlist to be rearranged directly in the Video Player, but if you want, you can rearrange the files from the playlist once they are loaded.

For easier work with the player you can drag & drop the video files, which you want to be played, from Windows Explorer without the need to rearrange the playlist.

Sequence of playing:
The row, marked in blue, indicates the currently playing file. The next file to start will be under the current one in the main playlist. If you make a double click on the file name, which is yellow, you will be redirected to this file on the list with the video files.
You are allowed to rearrange files while the player is working. Once the current file is near to its end, the red background appears showing that the current interface is locked and commands and changes will not be allowed.

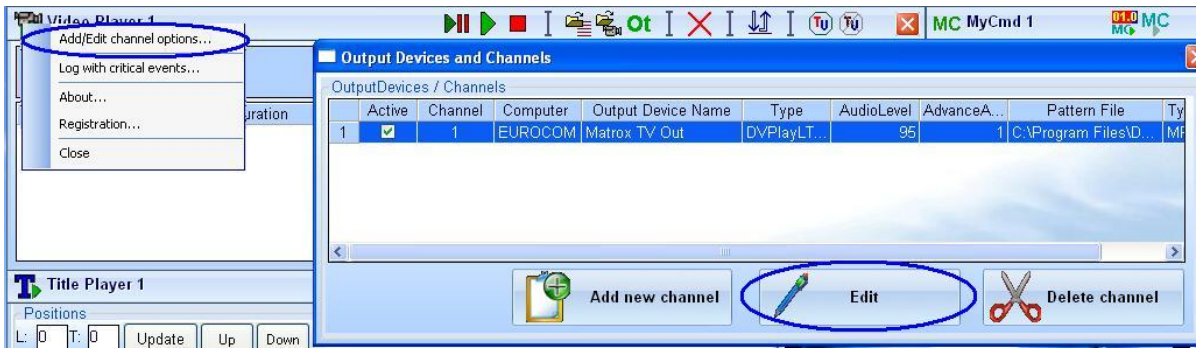
The last few seconds before the end of the current file the background over the file indicator is colored in red and the interface is locked.

Video Player :14.11.2011
Iskam da sum tam - LAOS.mpg
Start
Duration
File
1 0:01:16 D:\MPEG_PAL\Iskam - Vij Saigon.mpg
2 22:22:42 0:00:13 D:\MPEG_PAL\Iskam da sum tam - LAOS.mpg
3 22:22:55 0:00:21 D:\MPEG_PAL\REKALMA - LOKUS.mpg
4 22:23:16 0:00:15 D:\MPEG_PAL\REKLAMA - Doctrors_Trio_Men.mpg

3.2. Switching between Matrox, DeckLink or Stradis cards

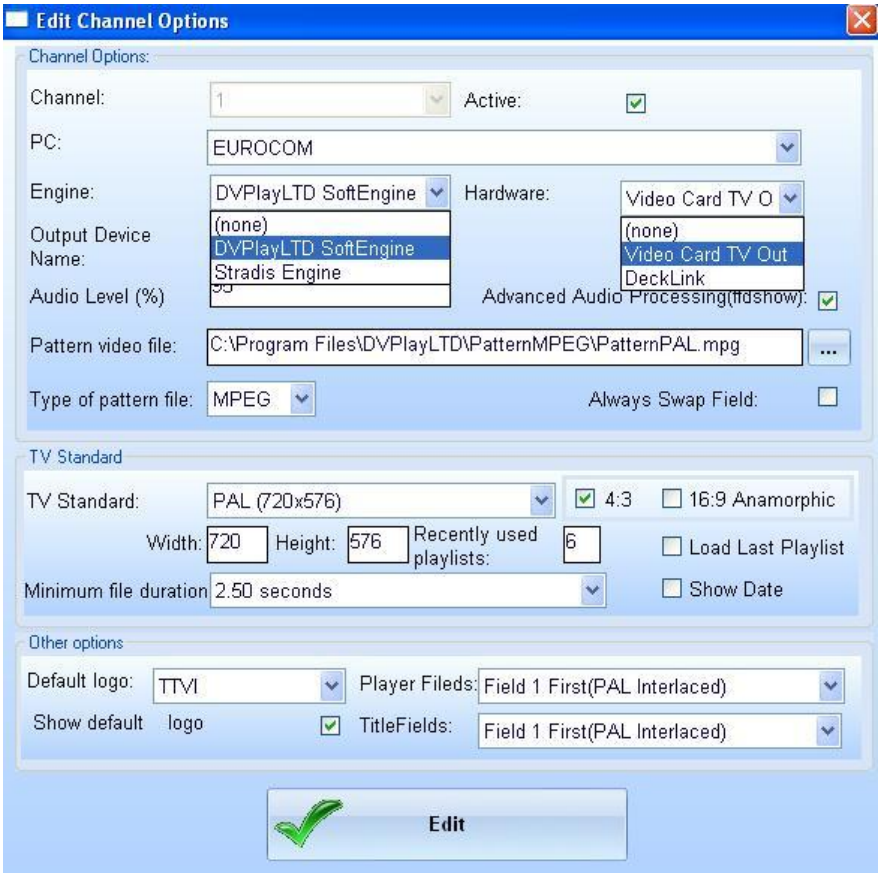
By default the DVPlayer v6 is set to use Matrox video card. If your video card is not Matrox you still will be able to test all the features of the DVPlay software watching the Preview module.

To change used hardware you should click on video player menu – **Add/Edit channel options** and click on **Edit** button as shown on the screenshot:



Here you should:

1. Select Playout engine – DVPlay SoftEngine or Stradis Engine
2. Select hardware – for DVPlay soft engine it can be Matrox or DeckLink while for Stradis hardware it should be exactly Stradis models – SDM230, SMD290, HDM500ex, HDM850.



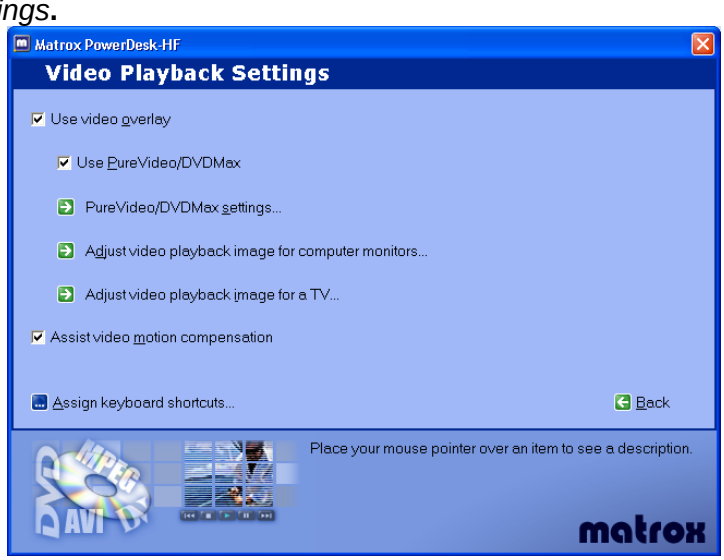
Note:

1. You should have installed Matrox, DeckLink or Stradis drivers before starting to use them in DVPlay software.
2. The step only instructs DVPlay software which hardware to use. Before this step the hardware device should has been installed. Please read the next chapter to find the additional drivers settings which should be done for your hardware.

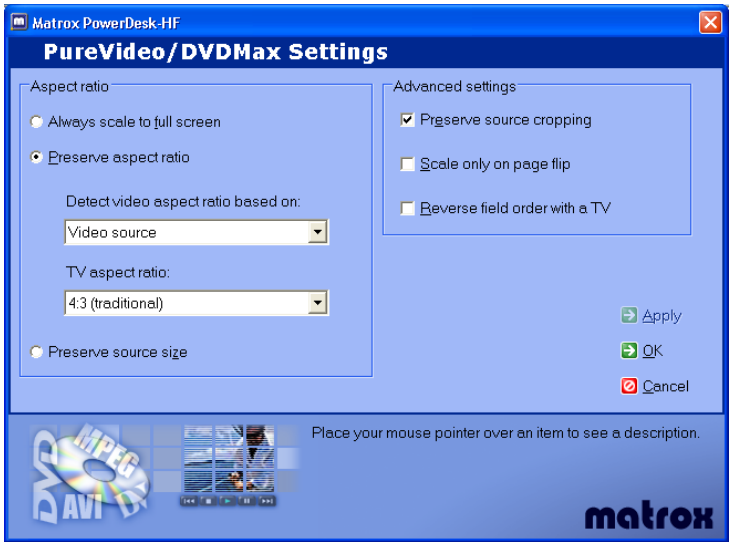
3.3. Setting the output of Matrox video card

To show quality TV output of Matrox P650 or Matrox Parhelia APVe *PureVideo/DVDMax* has to be turned on. Click *Start/Contol Panel /Matrox PowerDesk-HF*. Click *Video Playback Settings*.

Turn on ***Use video overlay***, ***Use PureVideo/DVDMax*** and ***Assist video motion compensation***. Click ***PureVideo/DVDMax*** *settings*.



Choose *Video source* from the drop-down list as shown below.



Setting the output of video cards, different from Matrox

You may use the TV output on ATI Radeon based video card, but only for test purposes, because its TV output is not of high quality. Also ATI Radeon video cards always deinterlace the video signal and in this case the picture is affected, when fast moving objects are shown. You must adjust the hardware overlay in such a way, that it has to be shown in full screen on the second monitor. Old ATI drivers indicate this as *Theatre mode*.

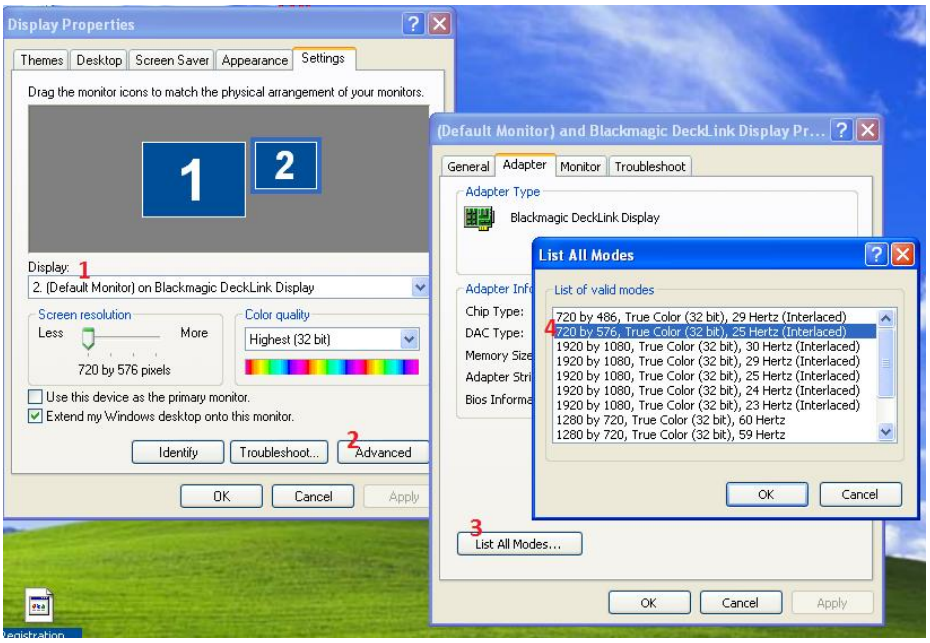
The sound is get from installed in the computer sound card. You can use build in MB sound card or to install external sound card in order to receive better quality.

Back to contents

3.4. DeckLink drivers setting

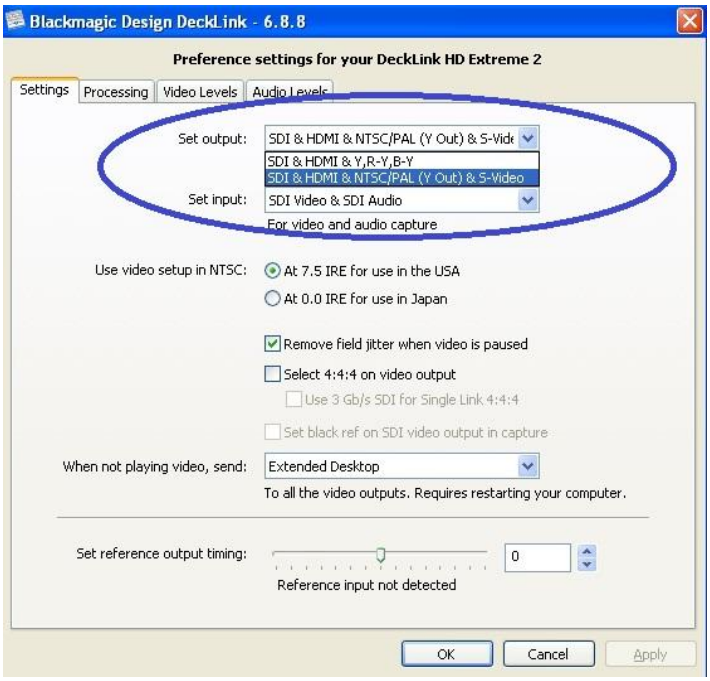
3.4.1 Set DeckLink video mode

You should set the mode of the DeckLink video card as shown below:



3.4.2 Set analog outputs of DeckLink card

Depending on the model of the DeckLink video card you may also have analog outputs except the SDI output. Usually all outputs are active at the same time. Analog output can be 2 types: 1) Y R-Y B-Y or 2) composite. On the screenshot below you can see the option, located in the Control Panel, which allows you to switch between the analog output types 1 or 2 of the DeckLink video card.


Blackmagic Design DeckLink - 6.8.8
Preference settings for your DeckLink HD Extreme 2
Settings
Processing
Video Levels
Audio Levels
Set output:
SDI & HDMI & NTSC/PAL (Y Out) & S-Vide
SDI & HDMI & Y,R-Y,B-Y
SDI & HDMI & NTSC/PAL (Y Out) & S-Video
Set input:
SDI Video & SDI Audio
For video and audio capture
Use video setup in NTSC:
At 7.5 IRE for use in the USA
At 0.0 IRE for use in Japan
Remove field jitter when video is paused
Select 4:4:4 on video output
Use 3 Gb/s SDI for Single Link 4:4:4
Set black ref on SDI video output in capture
When not playing video, send:
Extended Desktop
To all the video outputs. Requires restarting your computer.
Set reference output timing:
0
Reference input not detected
OK
Cancel
Apply

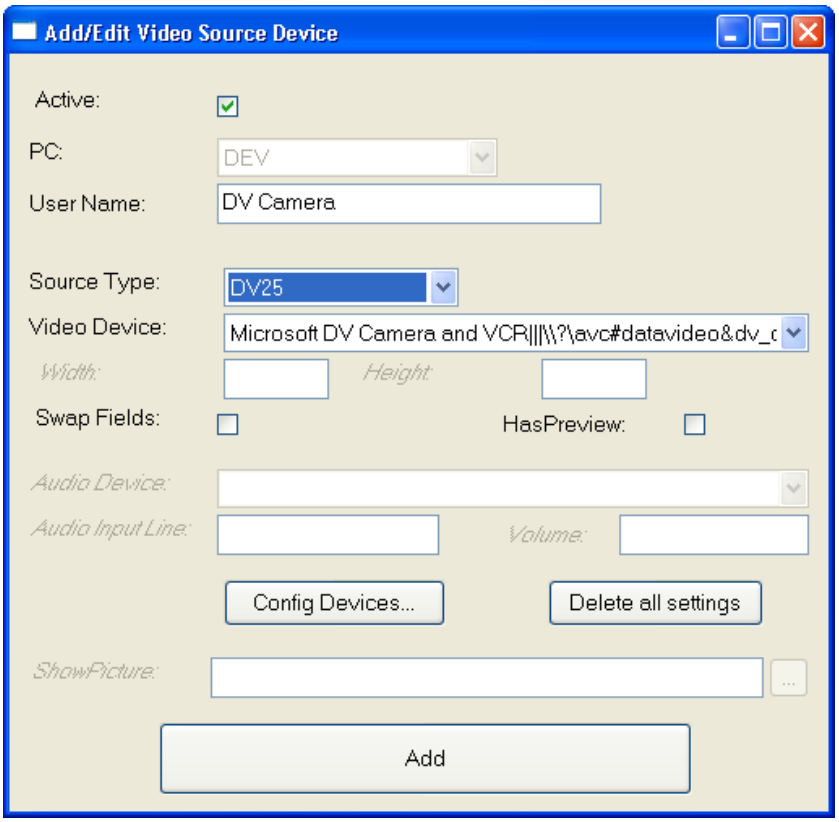
Please note that the sound signal of most models DeckLink video cards is available in two versions – 1) embedded in SDI and 2) balanced audio. If you choose to use the second option – 2) balanced audio – please make sure that the device after the DeckLink video card provides support of balanced audio.

*Balanced audio is a professional analog standard, using a 3 wire cable for carrying the sound signal and it is designed so to prevent the signal from distortion, while the sound signal, generated from a standard sound card is carried by a 2 wire cable and is called Unbalanced audio.

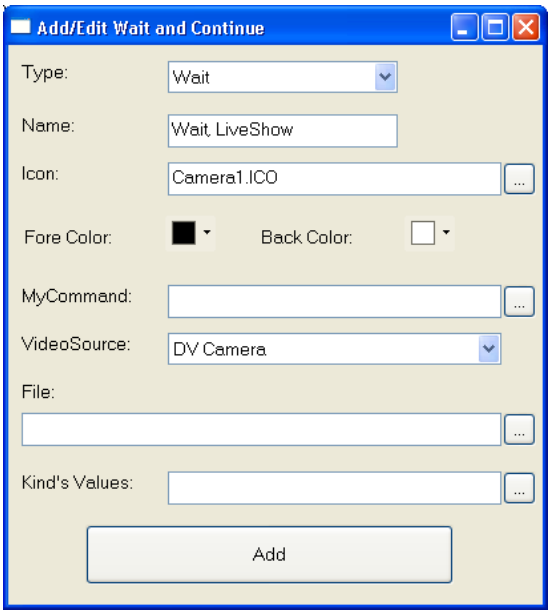
3.5. Switching to external audio and video signal using FireWire

With the DVPlay LTD software you may use your DV camera with a FireWare port to switch smoothly between playing another file and showing the camera video signal. It WILL NOT need a synchronization of the output device (DeckLink or Matrox P650). First you have to define the video source and then to choose between *Wait* or *Continue* command, depending on the video source. Then you have to add the *Wait/Continue* command to the playlist.

1. In *Playlist editor* go to *O/Options/Set Video Sources.*
2. Click *Add.*
3. Answer *Yes* to the question *Do you want to detect audio/video capture or render device present on this PC*
4. Under *User Name* change *Source Type* to *DV25* and *Video Device* to *Microsoft DV Camera and VCR*.



5. Click *Add* and close the window *Set External Video and Audio devices*
6. In the *Playlist editor* go to *O/Options/Set Wait Continue…*
7. Click *Add*

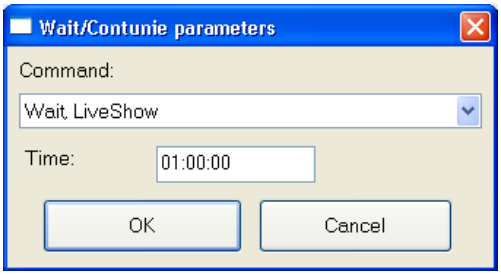


8. Choose *Wait* from the *Type* drop-down list, insert a value in the *Name* field, click and choose *Camera1.ICO*. Choose *DV Camera* from the *VideoSource* drop-down list.
9. Click *Add* and close the window *Adjust Wait and Continue commands.*

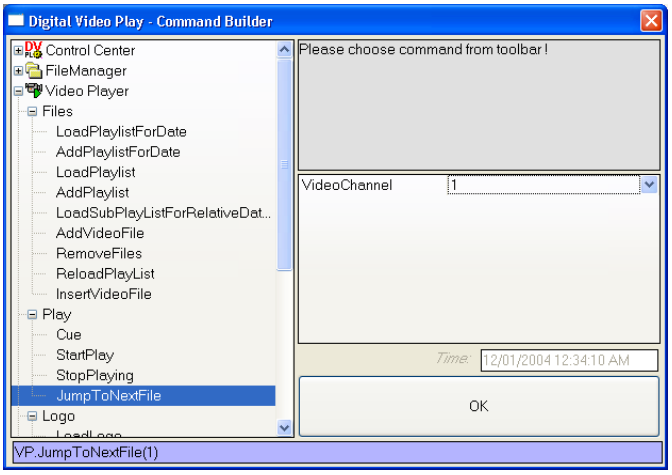
By following these steps you create a *Wait* command, based on the video source. Now this command has to be inserted in the Video Player or in the playlist.

Inserting a Wait/Continue command in the Video Player

1. Click and choose *Insert Wait/Continue*.
2. Choose *Command* and type the duration of the event.

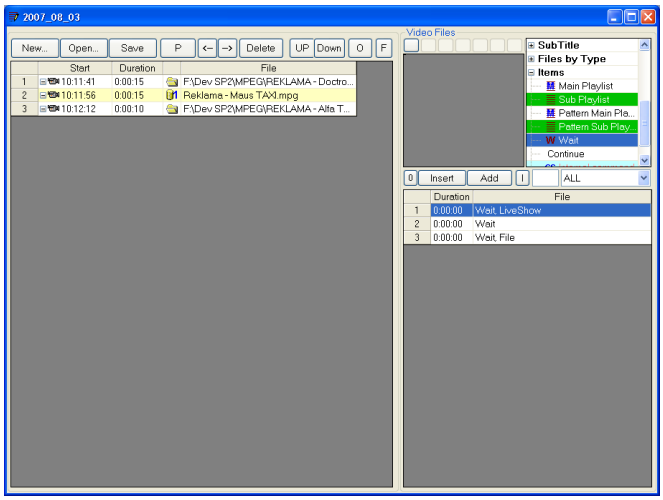


Note: If you do NOT know how long will be the live show type a longer time period. When the time comes to an end you may use the *JumpToNextFile* command to quit the live show.



Inserting the Wait/Continue command in the playlist using the PlayList editor

1. Click *D* in the *PlayList Editor*
2. Select *Wait* from *Items* and then select the proper commands as shown below.



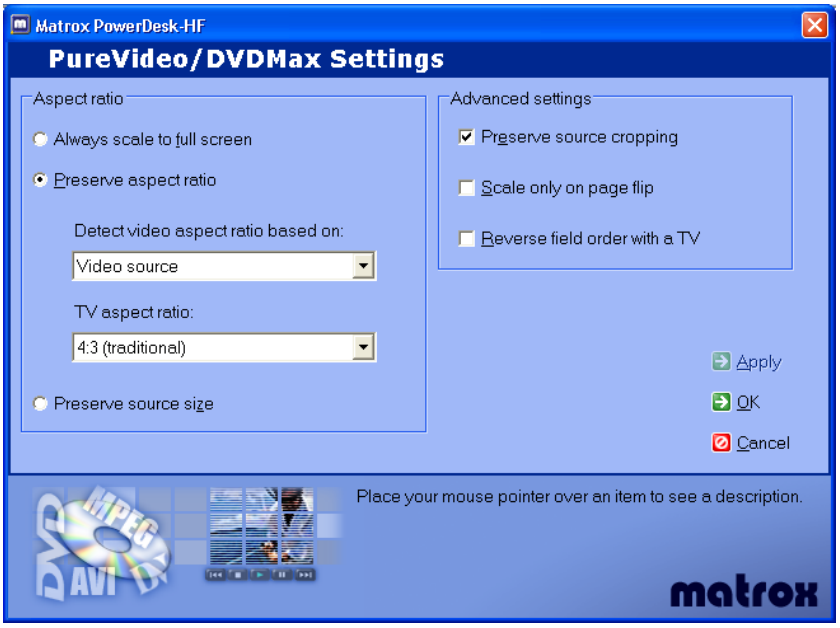
3. Click *Insert* or *Add.*

3.6. Support for 16:9 signal

DVPlay software, starting from version 5.40 on, fully supports 16:9 anamorphic mode for both analog and SDI output. Look on the picture below to find out how to switch to 16:9 mode.

To show the logo in its correct size you need to decrease its weight with 30 %, or to multiply only the weight, not the height by 0.7.

The drivers of the Matrox video card provide an additional option for formatting the output signal in 16:9 mode. Depending on the type of the device AFTER the videoplayer you may need or you may not need to set this option to achieve signal in 16:9 mode. Please look at the screenshot below:



Note: You need the latest driver installed in order to save the option of permanently using the widescreen TV aspect ratio. If after restarting the PC you see again the picture in the previous 4:3 aspect ratio, you need to update the video card driver.

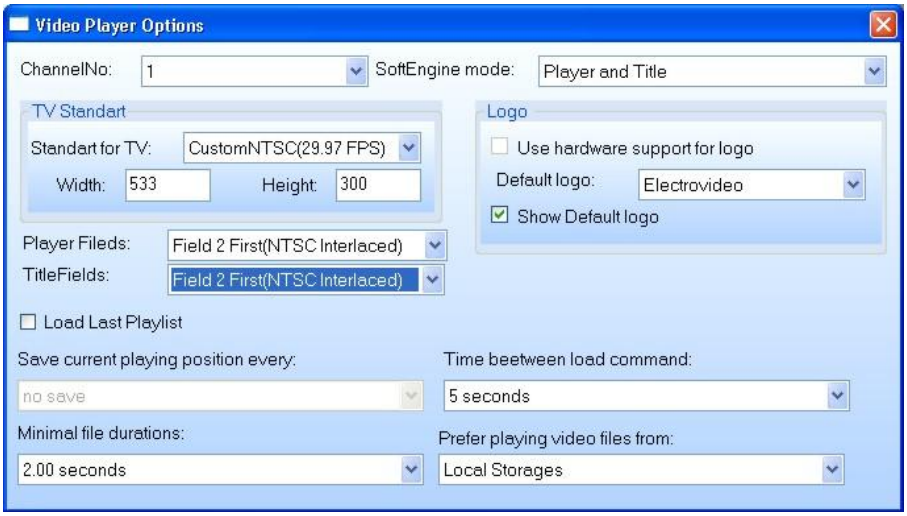
Back to contents

3.7. Playing files with custom resolution

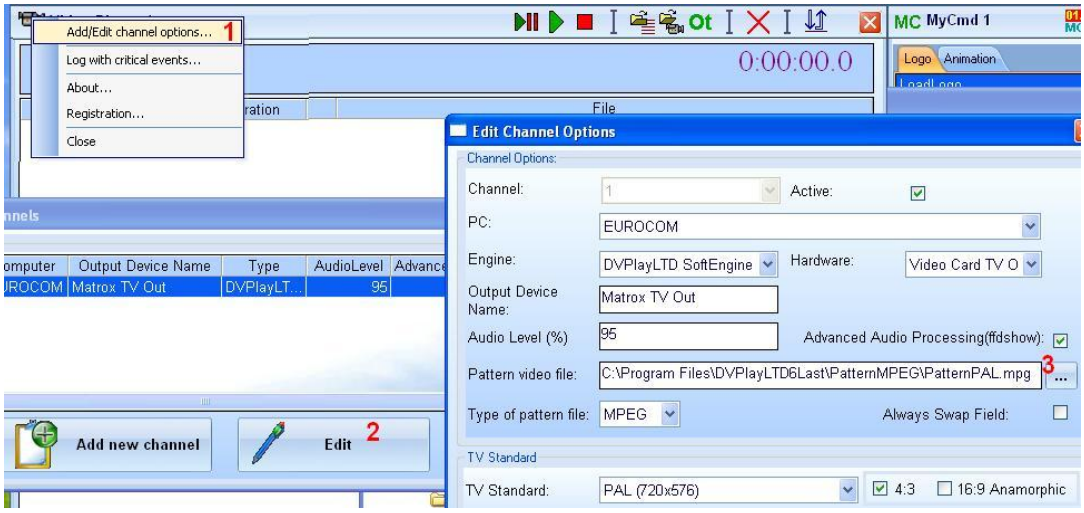
Starting from version 5.30 on the DVPlay software gives you an option to play files with custom format size. This option is useful with IPTV signal, which by rule is broadcasted with custom size, and not in the standard PAL or NTSC format like most of the TV companies do.

Please note that ALL your files must be in one and the same format. You can`t play one file in PAL and another in 500x333 pixels aspect ratio (custom size).

To tune the player to use files with custom size format you need to set it in the way it is shown on the following screenshot which you get from the menu *Video Player Option*.



Then you need to set a new pattern file with the same size as your custom file format. The pattern file is a MPEG-2 file with duration of 10-30 sec.



Back to contents

3.8. Video files formats

It is very important to play only files, converted to the correct format. Our experience shows that 99 % of the problems with the DVPlay software come from the incorrect parameters, used when the MPEG-2 files are created, so we strongly recommend you to check carefully EVERY file before you try to broadcast it with DVPlay software.

The DVPlay software is compatible with many types of MPEG-2 files. You can combine different types of such files in one playlist.

- **MPEG-2**

  - Video – MPEG-2 (ISO 13818) - 720x576 (PAL) or 720x480 (NTSC), Constant or Variable Bit rate between 3-15 MB/s

  - Audio **–** MPEG-1, MPEG-2 or Uncompressed (PCM), 44,1 KHz or 48 KHz

- **Microsoft AVI (DV25)** - 720x576 (PAL) or 720x480 (NTSC). This is a natural export format for movies for Premiere Pro 1.5 or 2.0 . Not available to Stradis hardware cards.

- **Windows Media Video 9 (WMV)** - 720x576 (PAL) or 720x480 (NTSC). Not available to Stradis hardware cards.

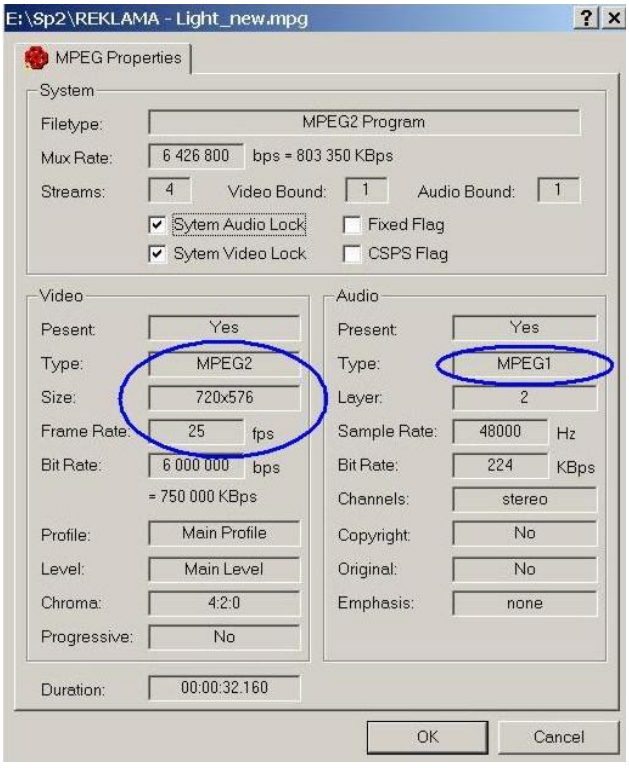
MPEG-2

It is very important that your MPEG-2 file is in the correct format; otherwise you will not be able to play it with the DVPlay software. From our experience we can define 2 common problems:

- The sound should be in **MPEG-1 format**. If the sound of your files is in AC3 format the DVPlay software will crash. Please read the text below to find out how to check what the actual format of the sound is.

- **Incorrect fields order.** The files can be played seamlessly and may look good on your PC screen, but when you watch them on a real TV screen you will encounter motion flickering. That's why computers with Matrox video cards should be used and the broadcast should be watched on a TV monitor to check if there will be any kind of flickering. Another way to avoid such problems is to use a hardware decoder with a TV out like the one the XCard offers.

You can download the program *MPEG Properties* from the download section of the DVPlay site. You must unzip the file, start the .bat file and then you will see a menu *MPEG Properties* when you right click the MPEG-2 file. Then a screen as the one below must appear.



WMV file

Due to some differences in WMV standard and imperfections of the program libraries of WMV you can face a problem when playing a WMV file with the DVPlay software. The problem can be unstable work, or even impossibility to start a certain file with the DVPlay's software. If this happens, please stick to the following recommendations:

1. You have to install a new fresh Windows XP SP 2 ENGLISH version. The version of the Windows OS MUST be English one. This step is strongly required, because we found that if you have already installed Premiere Pro or another program for video editing, you will experience difficulties when trying to create files compatible with the DVPlay software.

2. You have to install Canopus Edius Pro 3 or 4. You may download it and use it for test purposes from the site of Canopus.

3. You have to follow the steps for creating WMF file as given on our site:

http://www.dv-play.com/ingles/testmpeg.htm

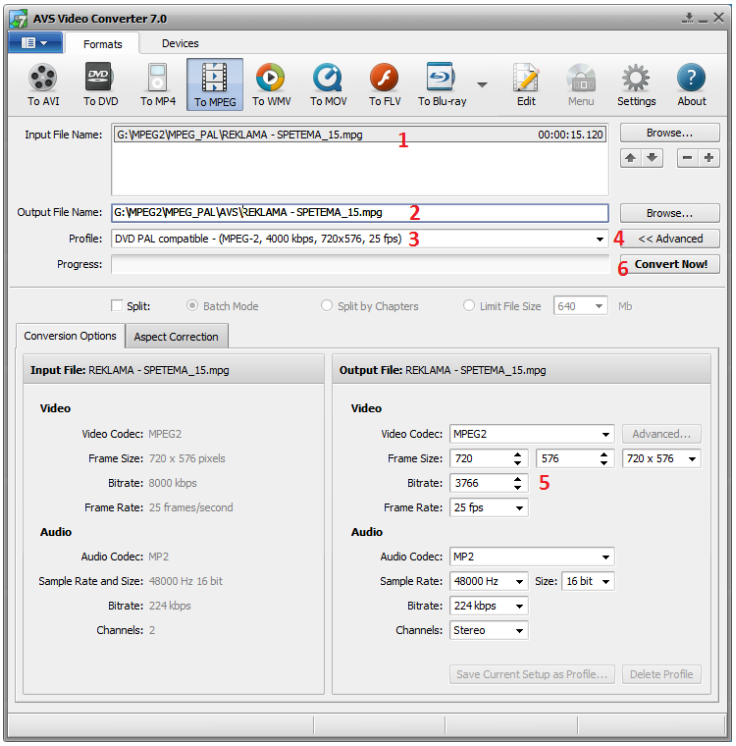
Back to contents

3.9. How to create your MPEG-2 files

Comprehending all the characteristics of the video files and their dependence on the hardware and the driver versions is a task, very difficult even for the professionals in that field. You are free to use your favorite graphics program and you can test your video files with the DVPlay software. If you experience problems with the output signal or the overall stability, you may use a tested and reliable way of changing the output format of your video files.

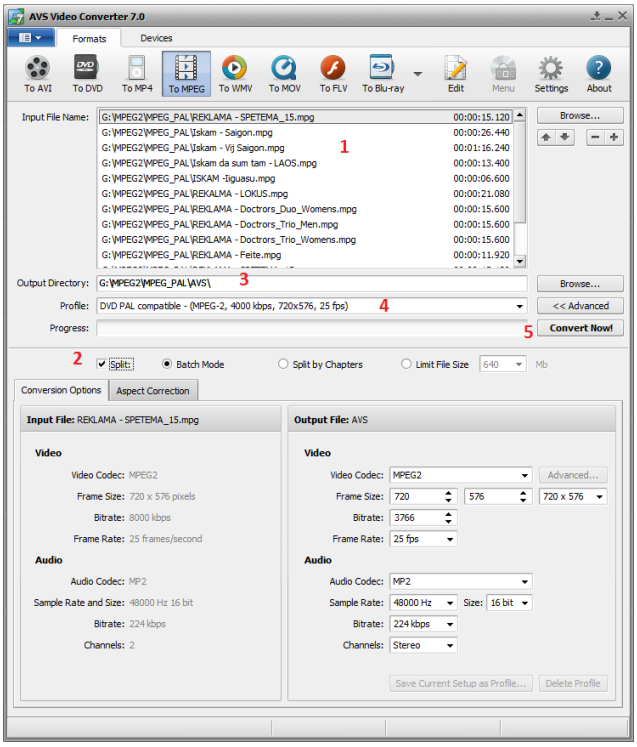
The program **AVS Video Converter** of Online Media Technologies Ltd http://www.avs4you.com allows the user to create with minimal efforts and knowledge MPEG-2 files that can work smoothly along with DVPlay. This is commercial software, but you can download a trial version and test it.

After you have downloaded and installed the AVS Video Converter please follow the instructions below. Note that the tab To MPEG is active.



1. Choose a file.
2. Select the output file format.
3. Choose the type of the file – usually it is DVD PAL Compatatble or DVD NTSC compatible.
4. Click *Advanced*.
5. Insert you desired bitrates. Bigger numbers mean higher quality and bigger file size too. The average value, used in most of the TV broadcasts is 8 000. Usually this value is somewhere between 3 000 and 15 000.
6. Click *Convert Now*.

The program allows converting of whole directories containing files. Please follow the instructions on the screenshot below.

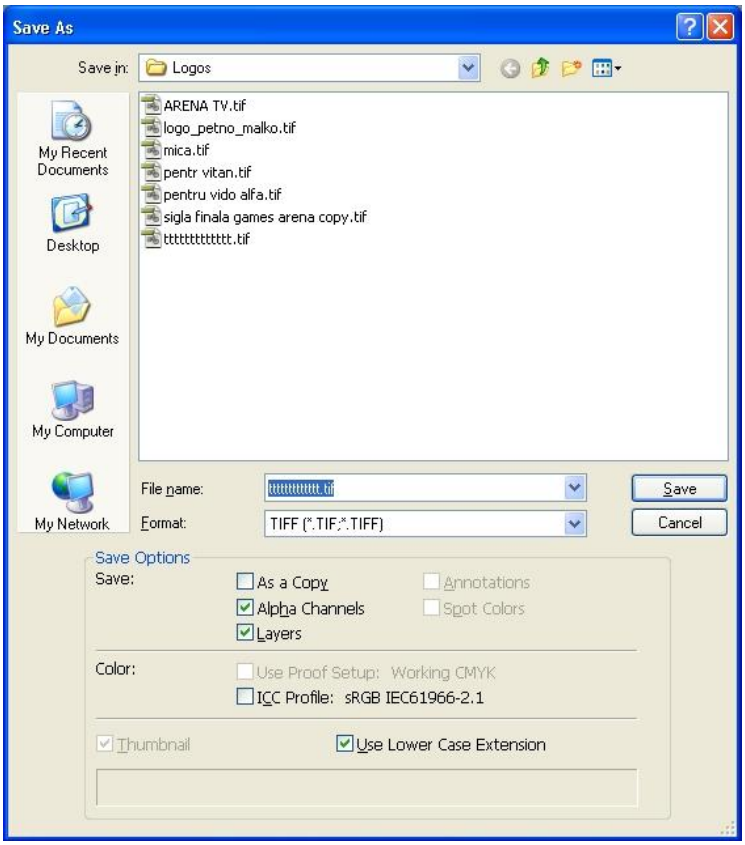


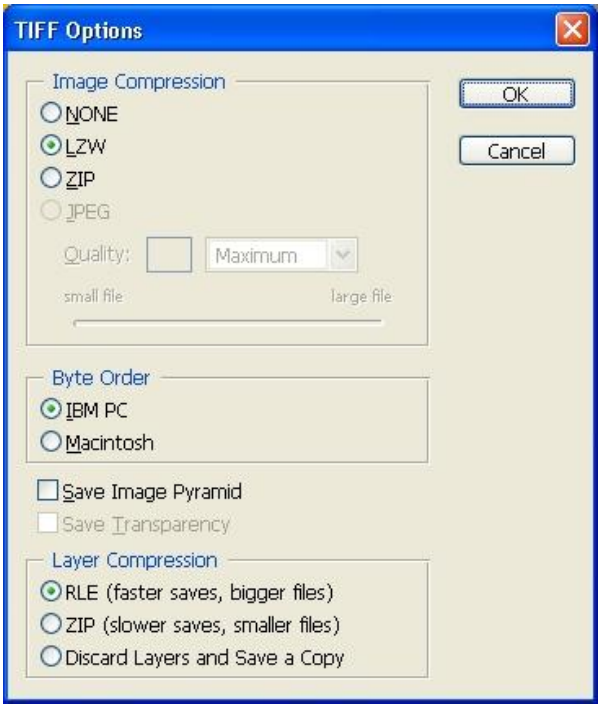
1.Choose the files.
2. Check *Split*.
3. Select the destination directory.
4. Choose profile.
5. Click *Convert Now!*

Back to contents

3.10. Logo managing

You can have logo overlay over video signal using the best method - per pixel alpha. The format of the picture is 32 bit, containing -24 bits colors +8 bits alpha channel in format TIFF. The screenshots below are made with the help of Adobe Photoshop 8.0

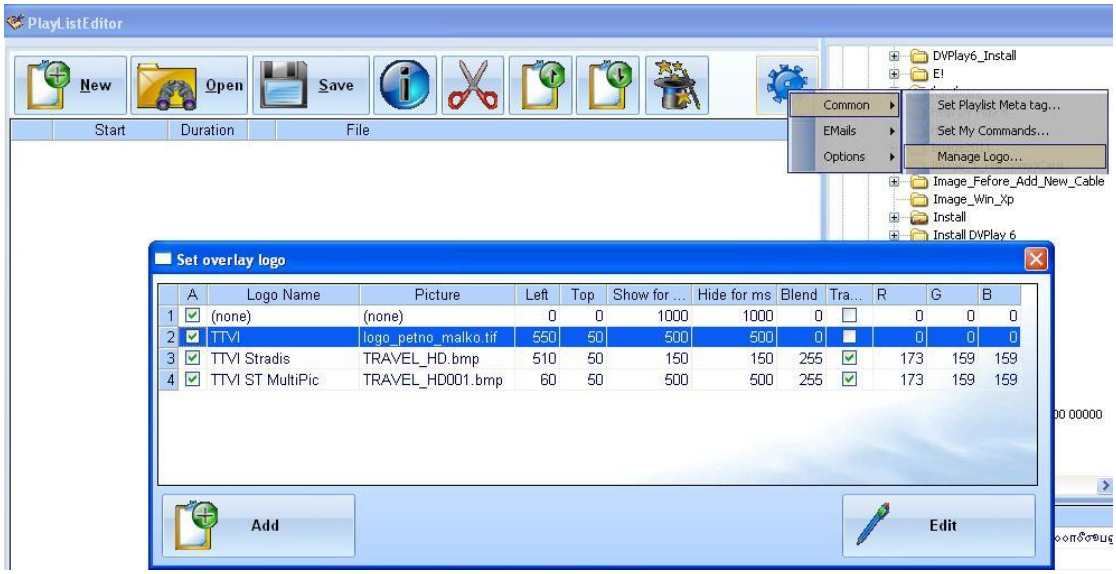




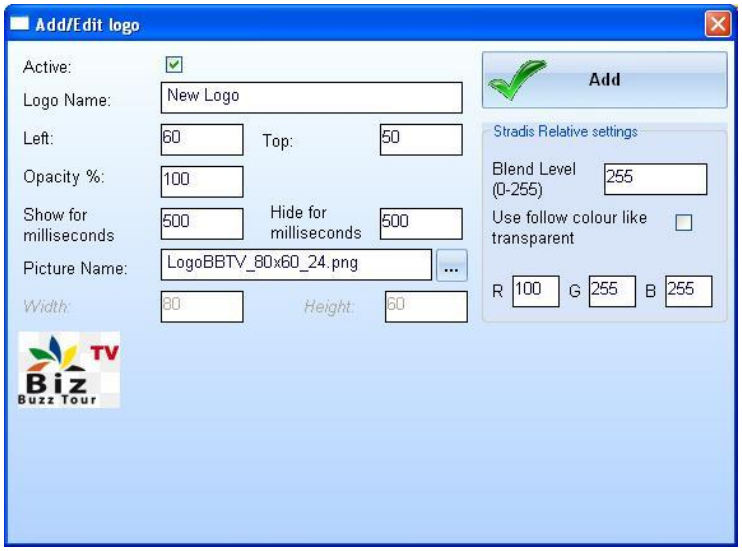
In general the size of the logo is about 80x60 pixels. It can be animated – for example logo001.tif, logo002.tif, logo003.tif and so on.
Using the logo is easy – you load it and then show or hide it. Depending on the version you may use the VideoPlayer or the TitlePlayer to load the logo and then to show and hide it. You may have one primary logo, but with using the TitlePlayer you may have more than one logo showing at the same time.

Adding a new logo

In the Playlist Editor click *Options/Common/Manage Logo.*



Click *Add*, type the logo name and click . Then choose picture. In case of using an animated logo choose the first picture (animated001.tif)

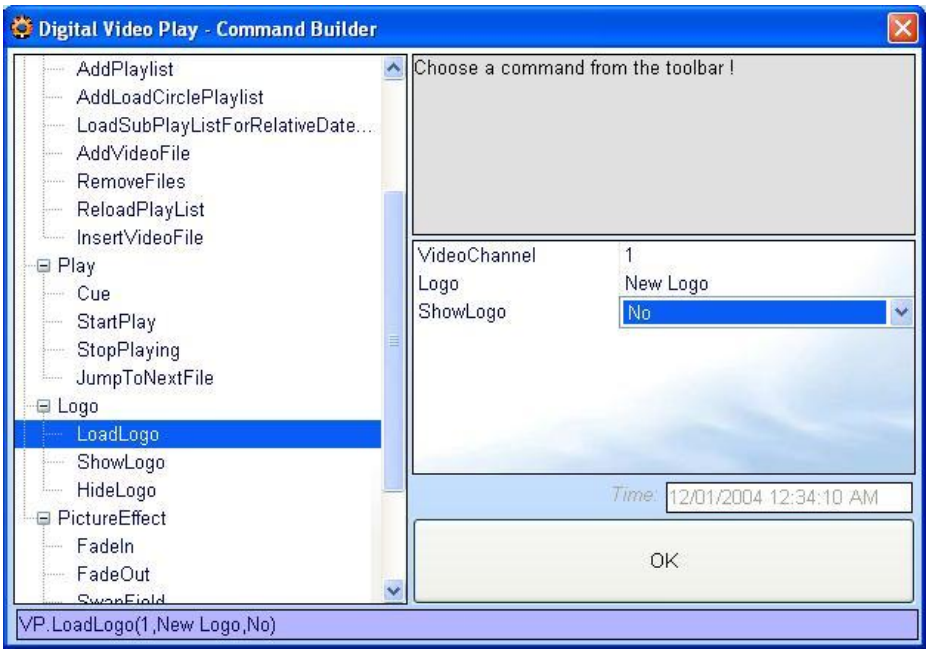


The logo is shown on the screen in a position, specified by the values in the Left and Top fields. By increasing the *Left* value the logo moves to the right and by increasing the *Top* value the logo moves downwards. The duration of the showing of the logo is corrected by *Fade in/out* and the preferred times are set in *Show for ms (milliseconds)* and *Hide for ms (milliseconds)*. 1 sec = 1 000 ms, 500 ms = half a second.

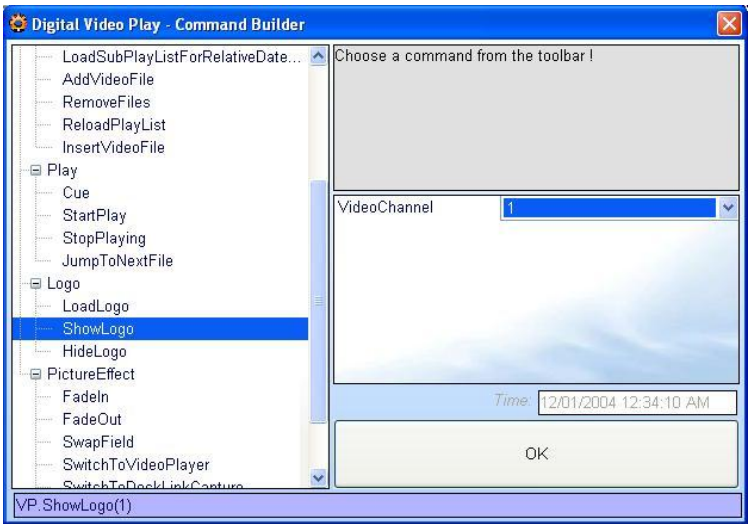
Editing a logo – go to *Options/Common/Manage Logo*, select a row from the table and click *Edit*.

Loading, showing and hiding a logo

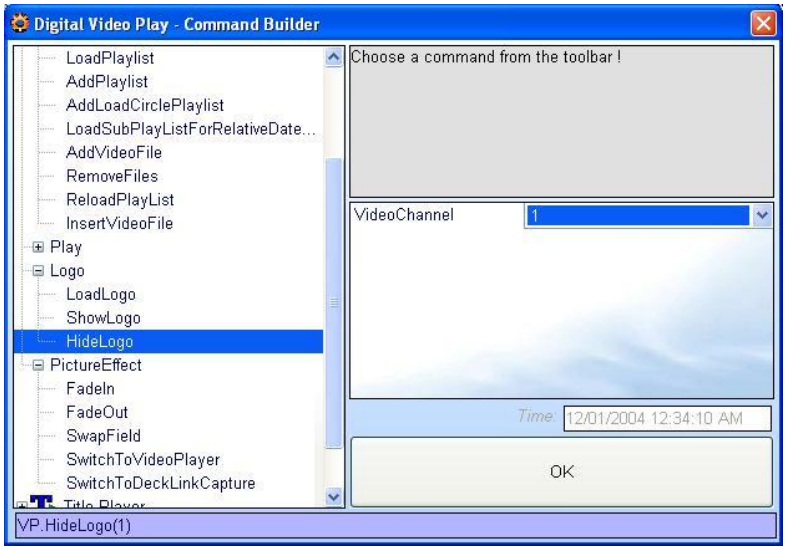
Loading a logo - you need to start the *Command Builder* from the *Control Center* menu and select *LoadLogo* as shown below.



Showing a logo - you may use the command as shown on the screenshot below or click on the Video Player or on the TitlePlayer menu.

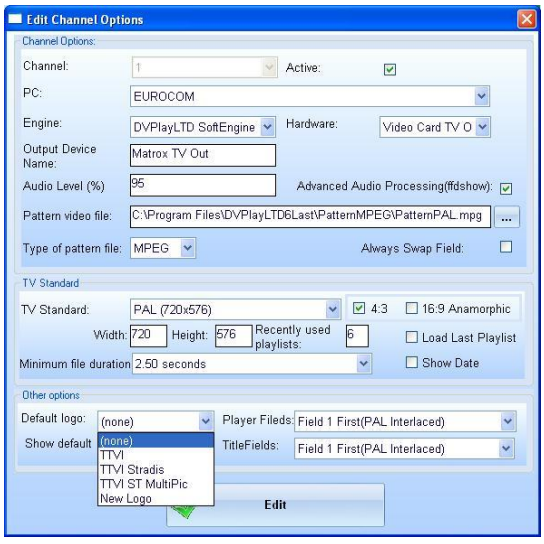


Hiding a logo - you may use the command as shown below or click on the Video Player or on the TitlePlayer menu.



Setting the Auto Load Logo function to load the logo every time the Video Player starts

1. Click *Menu* and choose *Video Player Options* from the popup menu.
2. Choose *Default logo* and check *Show Default logo*.



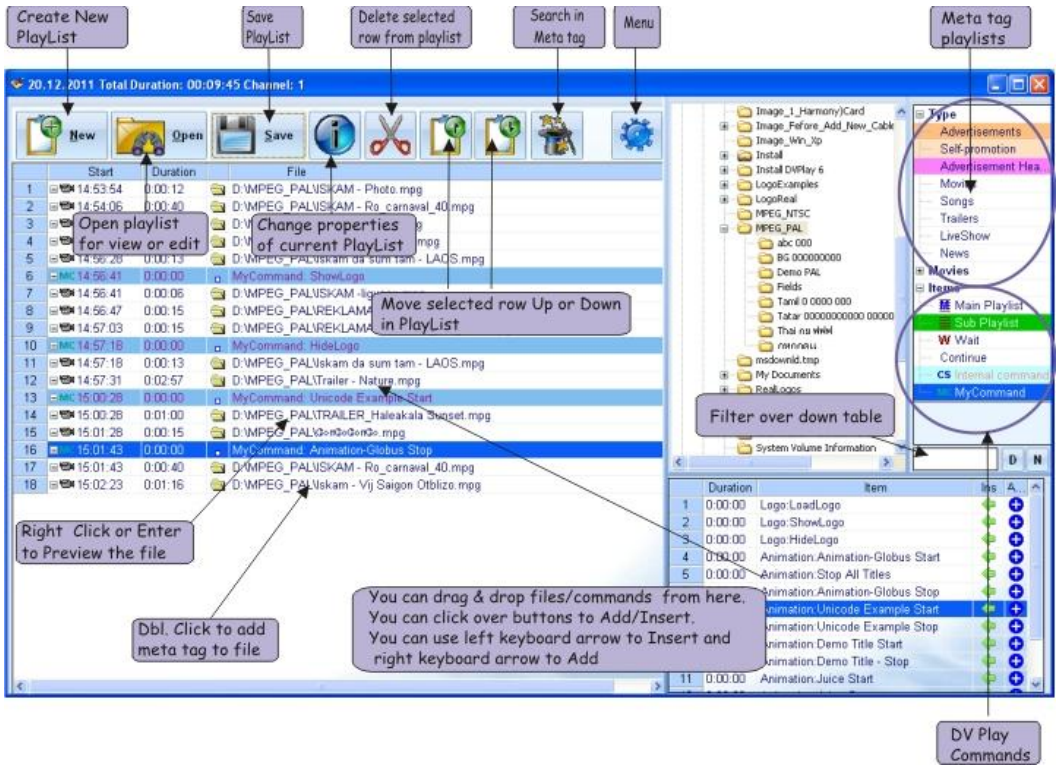
4. DV Playlist Editor

4.1. General description of the interface

A playlist is a newly created group of files and commands. It contains an arranged sequence of files that will be played consecutively, such as a group of advertisements. When you save a playlist, it can be used with the Video Player, so an operator can load for playing all the needed files with only one command.

The PlayList editor is the primary tool used to create playlists. You may start it from the icon which is set on your desktop after the DVPlay installation.

Here is the screenshot of the PlayList Editor.


Create New PlayList
Save PlayList
Delete selected row from playlist
Search in Meta tag
Menu
Meta tag playlists
Open playlist for view or edit
Change properties of current PlayList
Move selected row Up or Down in PlayList
Filter over down table
Right Click or Enter to Preview the file
Dbl. Click to add meta tag to file
You can drag & drop files/commands from here.
You can click over buttons to Add/Insert.
You can use left keyboard arrow to Insert and right keyboard arrow to Add
DV Play Commands

You can not only add files to the playlist, but you can also insert in it already defined in MyCommands menu items like *Show Logo* or *Hide Logo*. There is no limitation what command(s) you can put in MyCommand – it can be command(s) to the matrix to switch the output signal, to start/stop showing the title or to perform other tasks. 99 % of all commands which a human operator can send via keyboard and mouse can be put in the playlist. This ensures true options for the DVPlay software to operate days and even weeks without human operator at all.

Insert (green arrow) means that the new file or command will be put after the currently selected row which is blue colored. Add (blue plus) means that the new file or command will be put in the end of the playlist, no matter which row has been selected.

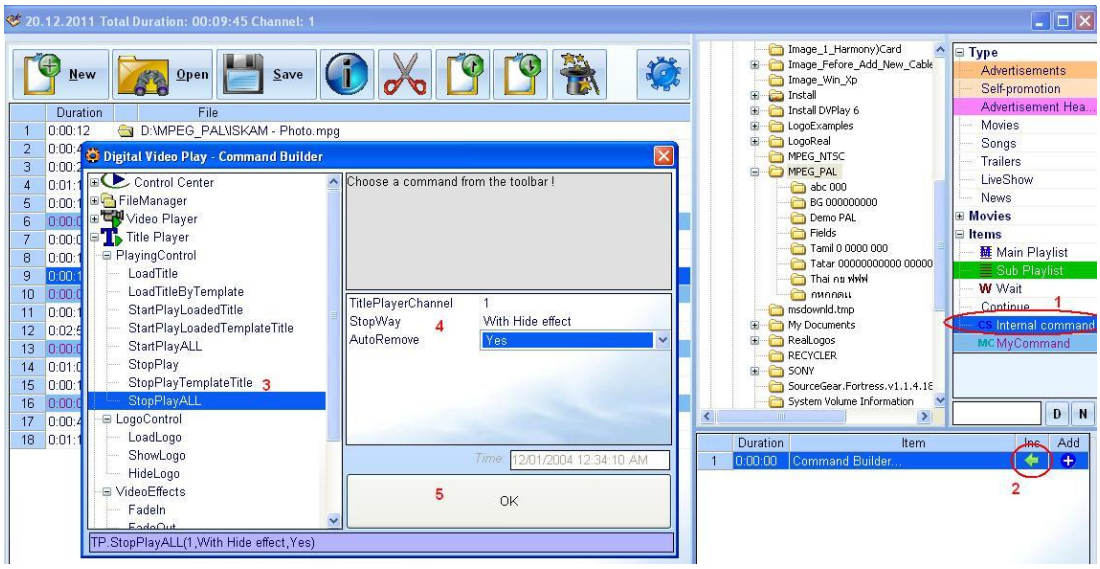
Notes:

1. If you use the playlist on other computers than the one with the installed DVPlayer you should add the new files via LAN connection, using shared files in order to ensure that these files will be readable from the Video Player. See Chapter 1.5 DVPlay scheme for more info.

2. If your directory and files name are on your mother language and you see directories like 0000 or other you should set your Windows as it is shown on Chapter 1.3 Set your language.

3. MyCommands menu allows you to gather some commands in one group. For more information about how to set MyCommands menu please read Chapter 5.2 MyCommands menu. If you need to add a

command you may use Internal Command, like it is shown on the following screenshot. Using this command instructs DVPlay to stop playing all titles (if there is a currently played title).

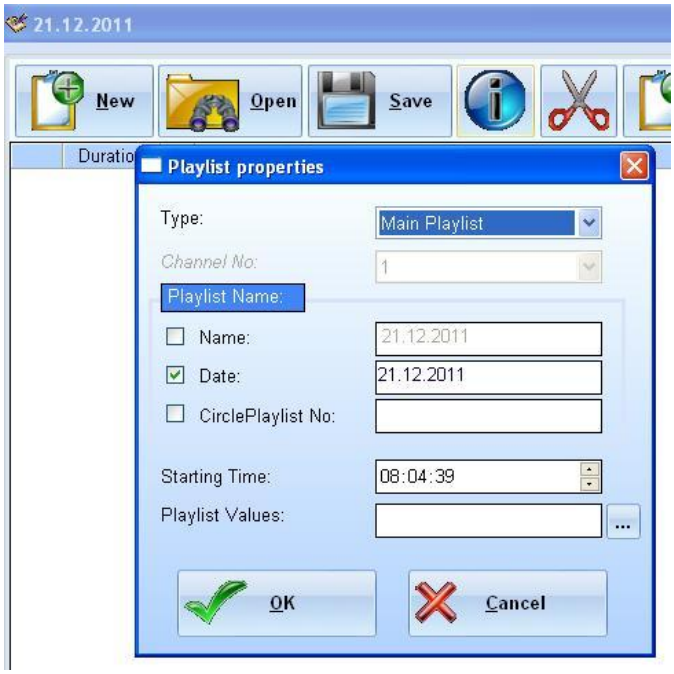


4. There is no technical problems for the PlayList editor to work on the same computer where the video player is, but due to possible human error we recommend to install the PlayList editor on a separated computer.

5. Right mouse click over your directory tree in the PlayList Editor opens Windows Exporer with the selected directory. This feature is useful in case you want to rename/move your files.

4.2. Main PlayLists

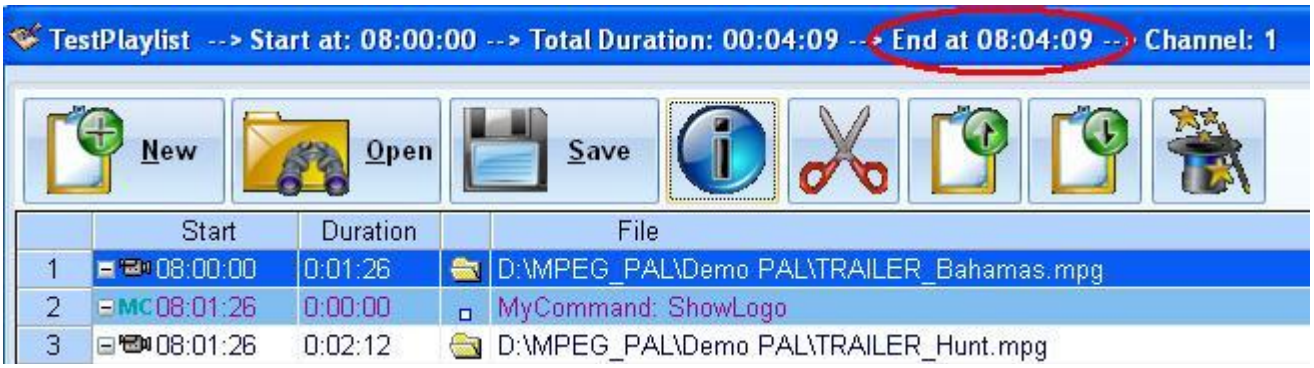
The main playlist is created with purpose to be load on the Video Player. When we click on the **New** button we get the following screenshot:



For the playlist name we can select between options:

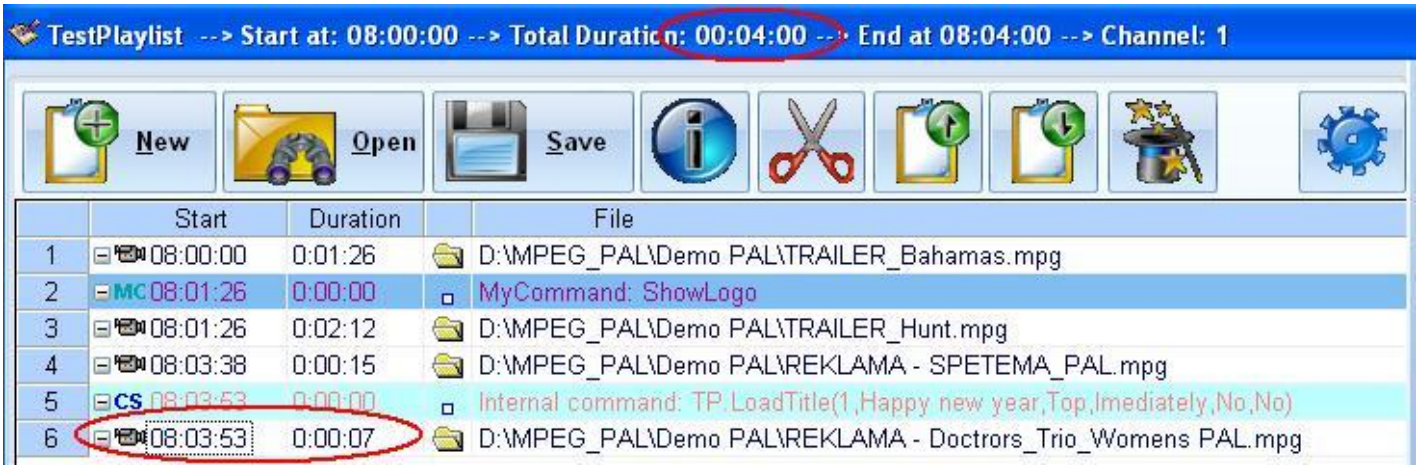
1. Name – any name of user's choice.
2. Date – select the option if the playlist will be used with a schedule. For more info refer to Chapter 6 Scheduling.
3. Circle playlist - are designed to be played repeatedly without any stopping. Once time you set the schedule to use CirclePlaylist the only action which you should do is to add/edit your circle playlists. The changes will be used automatically after the current circle playlist has been finished. For more info read the next chapter.

You can use Starting time to set the playlist's starting time. Please note that this is **your planed time**, and **not the actual time**. If for example we set Starting time 8.00 but in the video player the load playlist is at 8.05 it will start at 8.05. The idea of Starting time is if for example you plan to start your playlist at 8.00 a.m and know that is should be 2 hours while you add files to the playlist you are able to check the time duration as it is shown on the next screenshot.



With double mouse click over Start column you start the function Set PlayList Duration. The function cuts your playlist and sets its duration with the selected value.

The result can be seen on following screenshot:



Back to contents

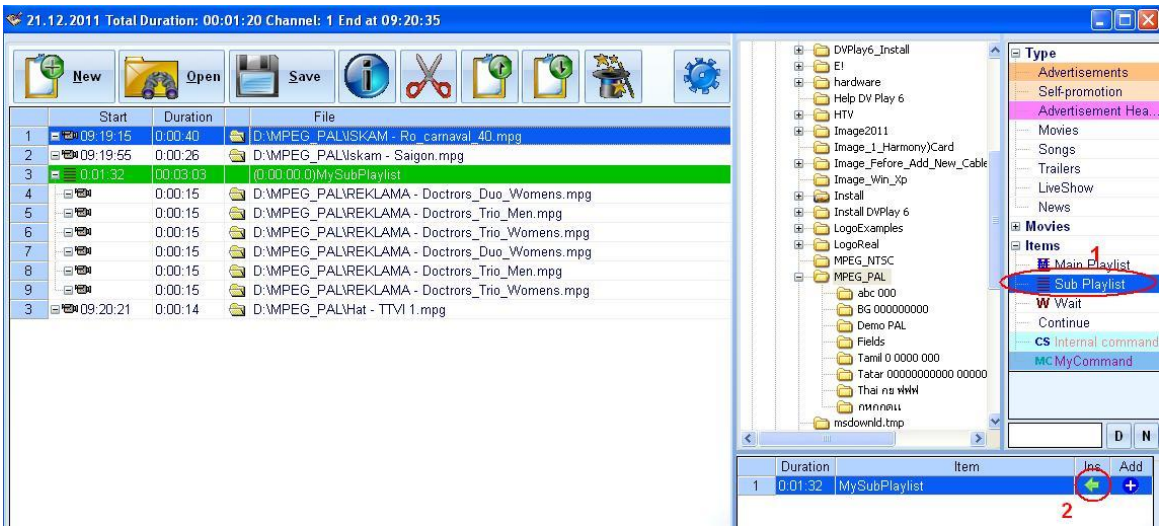
4.3. Sub PlayLists

The sub playlists are useful for gathering files in a group. For example you may create sub playlist with advertisement files which can be shown always as one block. A sub playlist can`t be loaded and started by the player as a stand-alone object, but it must be inserted in the main playlist.

To create a new sub playlist click on Button **New** and set options as it is shown on the screenshot below:

The next step is to select some files and to save your sub playlist. Then you can insert a sub playlist in the main playlist following the steps

1. Open or create New Main Playlist.
2. Click on Sub Playlist and insert your sub playlist as it is shown on the screenshot below:



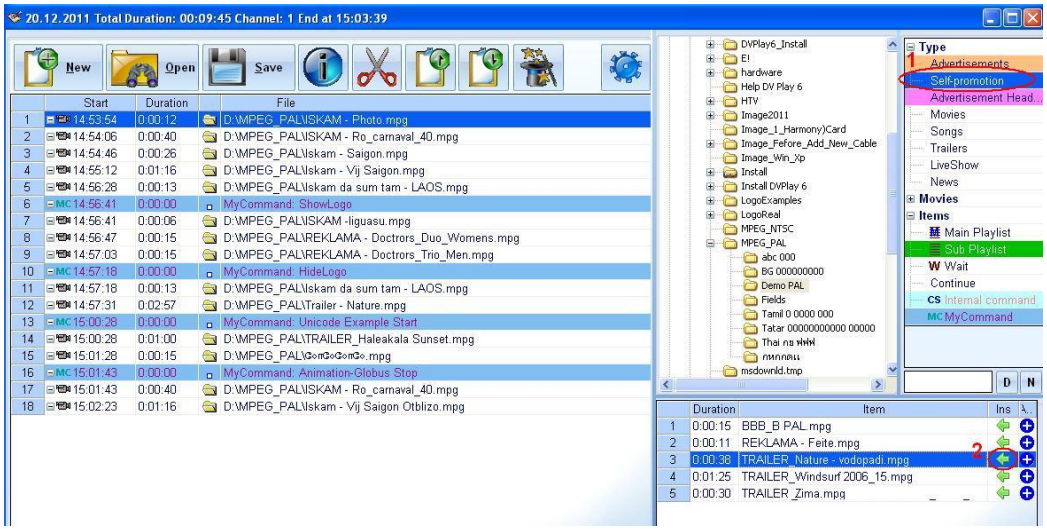
Note:

The sub playlist can be **linked** or **copied** in the main playlist. Linked means that you insert the sub playlist as a solid block in the main playlist and you are not able to do any change in it. If you want to change the position of the linked sub playlist you should delete it and insert it in the new position.

The copied sub playlist allows you to do changes because once you have finished the inserting operation every single file/command from the sub playlist body behaves like it was manually inserted.

4.4. Meta tag playlists

Already defined meta tag playlists can be used for faster file searching. Open the main or the sub playlist and follow the next instructions as it shown on the screenshot below:



More details about the meta tag playlists you can read in Chapter 7 Meta tag library.

Back to contents

4.5. Circle PlayLists

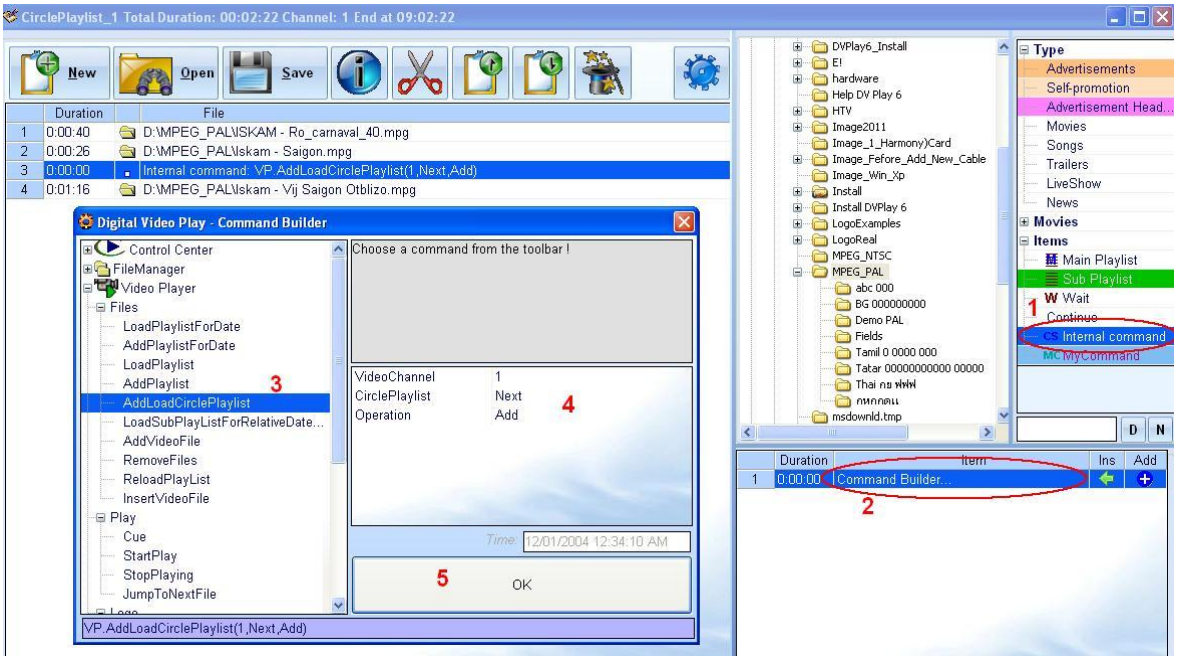
The circle playlists are designed to be played repeatedly without any stopping. When the last circle playlist is played over the playback begins again from the first one. For example you can create 3 circle playlists and play them consecutively one after another for weeks or even months. Whenever you want you can open a circle playlist and change files in it. On the next loading of the playlist the changes will be applied.

The following steps will show you how to create circle playlists and set the playback to be repeated without pausing.

Creating Circle PlayList:

1. Click *New* in the *DVPlayList*, choose *CirclePlaylist No,* type *1* and click *OK.*

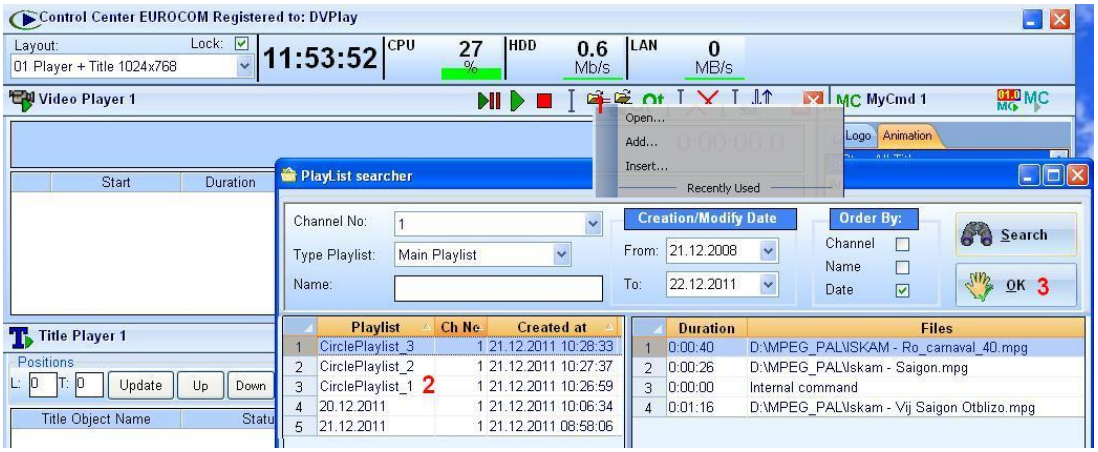
2. Add some files to the playlist.
3. Before the last file, insert Internal command which loads the next circle playlist.



4. Save playlist

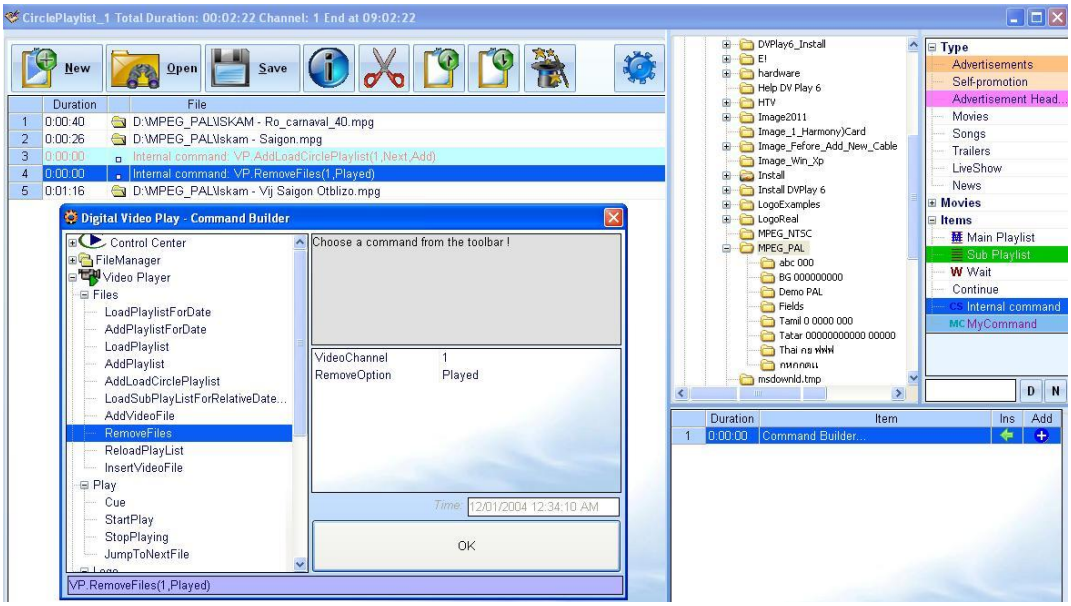
Repeat step 1 (inserting numbers *2* and *3* in *CirclePlaylist No*) and then repeat steps 2, 3 and 4.

Starting Circle PlayList:



Note:

1. You may find the internal command RemoveFile useful. It will remove from the video player the files which have been already played.



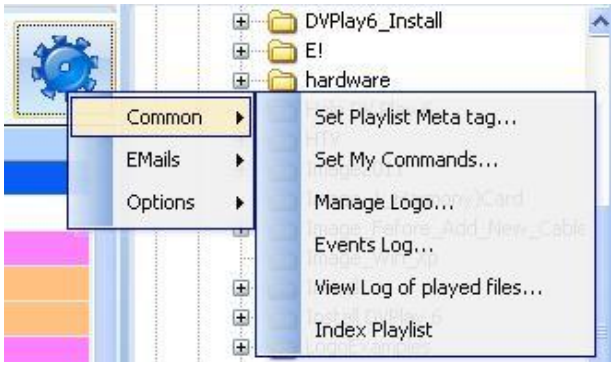
Back to contents

4.6. Playlist Editor Menu

The Playlist editor menu is organized in 3 groups of menus.

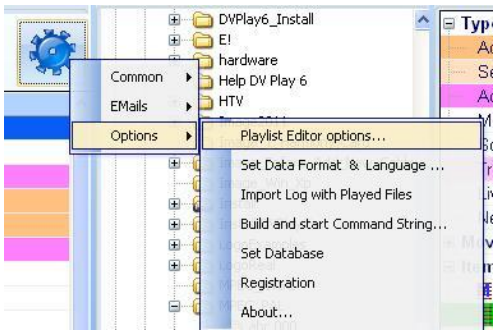
The Common group is most often used.

- **Set Playlist meta tag** is described in Chapter 7 Meta tag library
- **Set My Commands** is described in Chapter 5.3 My Commands
- **Manage logo** is described in Chapter 3.9
- **Event log** gives you options to review DV Play's log with commands and events.
- **View log of played files** is described in Chapter 4.8
- **Index Playlist** function should be used **only with Stradis hardware**. It creates the index file with .idx extension which index file allows you faster start trimming of the video file, or faster starting play from the middle of the file. In general all files you use should be indexed with this function.



The Option group consists:

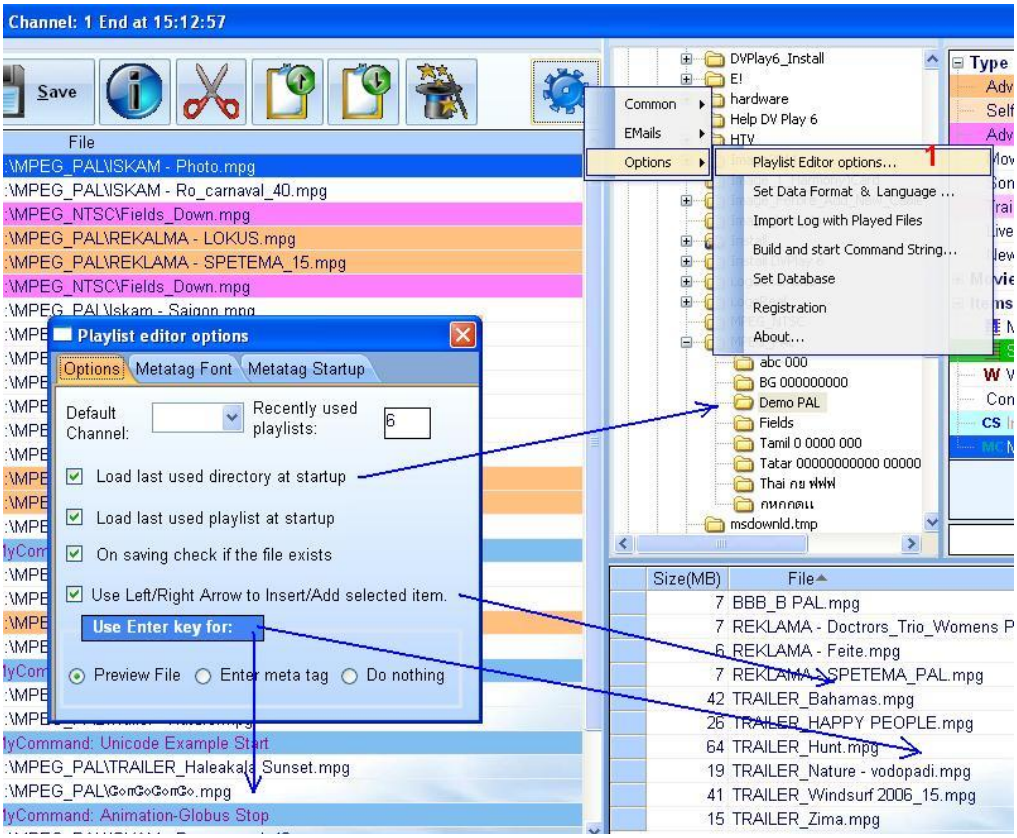
- **PlayList Editor Option** is described in Chapter 4.7
- **Set Date Format & Language** allows you to set your date time in format – dd.mm.yyyy or mm/dd/yyyy. For the language setup see Chapter 1.4. Set my own language.
- **Set Database** is used to specify the path to the database file. Usually the database file is accessed over a LAN sharing.
- **Registration** is used to add the PlayList registration.



The Emails menus are described in Chapter 13 Email manager.

4.7. Playlist Editor Options

You can access the playlist editor options as it is shown on the following screenshot



The **recently Used Playlist** sets how many Recently Used playlists will be kept in history when you do a right click over Open menu.

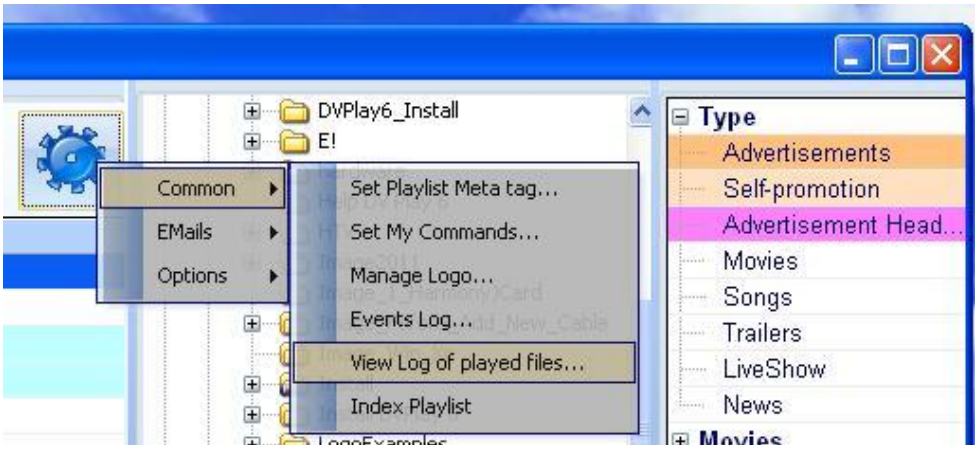
On saving check if file exists in most cases should be turned on. If a file in the playlist is missing or can't be accessed you will get a warning message.

Use Enter Key for allows you to set action after you have selected the items and clicked Enter key.

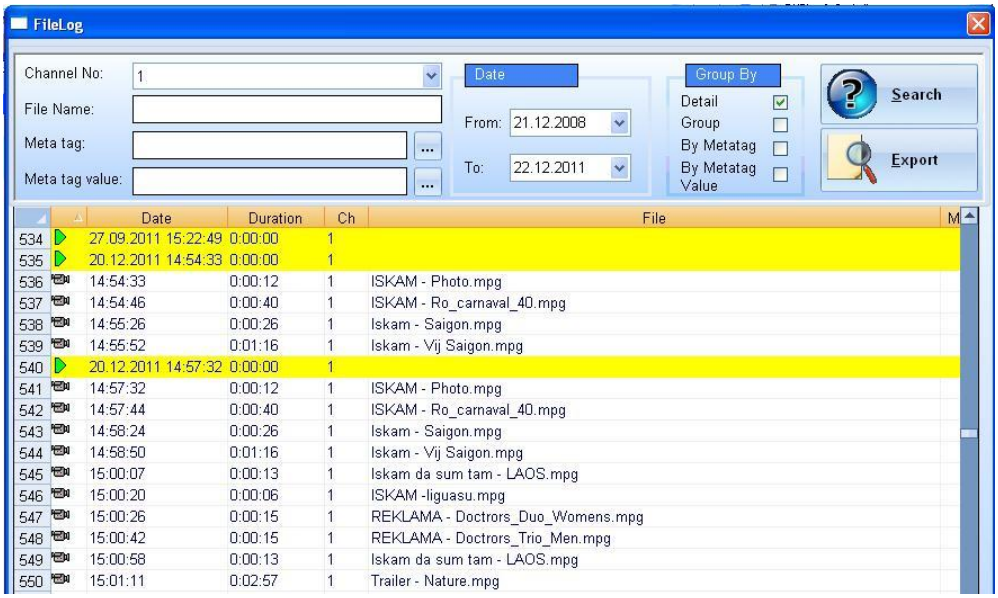
Back to contents

4.8. Displaying statistics for the played files

You can see it on the PlayList Editor as shown below.

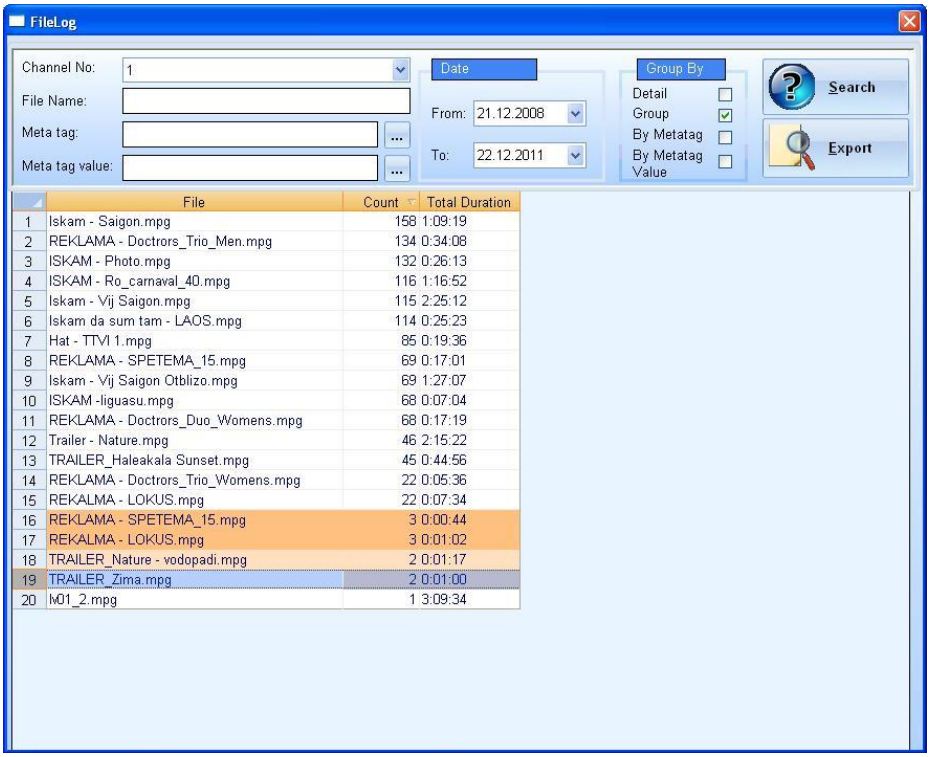


Here you can select your criteria like date range, part of file name, channels and others on the date range by clicking *Search*. If you prefer, you can export this statistics with the help of the button *Export*.



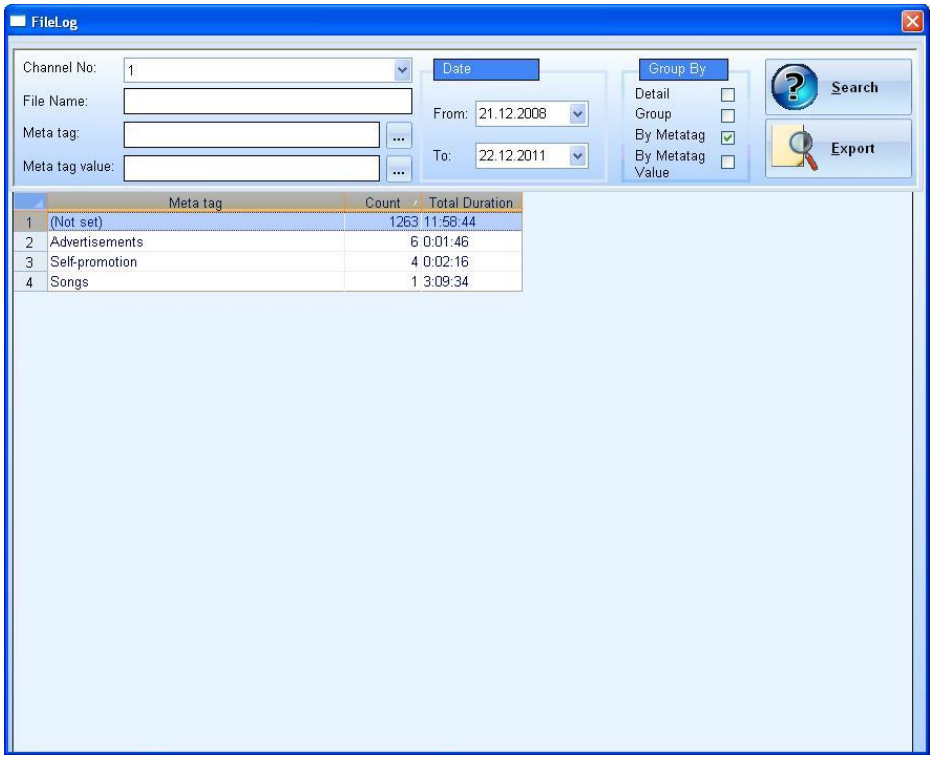
	Date	Duration	Ch	File
534	27.09.2011 15:22:49	0:00:00	1	
535	20.12.2011 14:54:33	0:00:00	1	
536	14:54:33	0:00:12	1	ISKAM - Photo.mpg
537	14:54:46	0:00:40	1	ISKAM - Ro_carnaval_40.mpg
538	14:55:26	0:00:26	1	Iskam - Saigon.mpg
539	14:55:52	0:01:16	1	Iskam - Vij Saigon.mpg
540	20.12.2011 14:57:32	0:00:00	1	
541	14:57:32	0:00:12	1	ISKAM - Photo.mpg
542	14:57:44	0:00:40	1	ISKAM - Ro_carnaval_40.mpg
543	14:58:24	0:00:26	1	Iskam - Saigon.mpg
544	14:58:50	0:01:16	1	Iskam - Vij Saigon.mpg
545	15:00:07	0:00:13	1	Iskam da sum tam - LAOS.mpg
546	15:00:20	0:00:06	1	ISKAM -liguasu.mpg
547	15:00:26	0:00:15	1	REKLAMA - Doctrors_Duo_Womens.mpg
548	15:00:42	0:00:15	1	REKLAMA - Doctrors_Trio_Men.mpg
549	15:00:58	0:00:13	1	Iskam da sum tam - LAOS.mpg
550	15:01:11	0:02:57	1	Trailer - Nature.mpg

You can receive group statistics. In that way you can see how many times a file has been played.



	File	Count	Total Duration
1	Iskam - Saigon.mpg	158	1:09:19
2	REKLAMA - Doctrors_Trio_Men.mpg	134	0:34:08
3	ISKAM - Photo.mpg	132	0:26:13
4	ISKAM - Ro_carnaval_40.mpg	116	1:16:52
5	Iskam - Vij Saigon.mpg	115	2:25:12
6	Iskam da sum tam - LAOS.mpg	114	0:25:23
7	Hat - TTVI 1.mpg	85	0:19:36
8	REKLAMA - SPETEMA_15.mpg	69	0:17:01
9	Iskam - Vij Saigon Otblizo.mpg	69	1:27:07
10	ISKAM -liguasu.mpg	68	0:07:04
11	REKLAMA - Doctrors_Duo_Womens.mpg	68	0:17:19
12	Trailer - Nature.mpg	46	2:15:22
13	TRAILER_Haleakala Sunset.mpg	45	0:44:56
14	REKLAMA - Doctrors_Trio_Womens.mpg	22	0:05:36
15	REKALMA - LOKUS.mpg	22	0:07:34
16	REKLAMA - SPETEMA_15.mpg	3	0:00:44
17	REKALMA - LOKUS.mpg	3	0:01:02
18	TRAILER_Nature - vodopadi.mpg	2	0:01:17
19	TRAILER_Zima.mpg	2	0:01:00
20	lv01_2.mpg	1	3:09:34

Using group by Meta tag or meta tag value you can find useful for statistics about the playing by type of your files.



	Meta tag	Count	Total Duration
1	(Not set)	1263	11:58:44
2	Advertisements	6	0:01:46
3	Self-promotion	4	0:02:16
4	Songs	1	3:09:34

Back to contents

5. Control Center

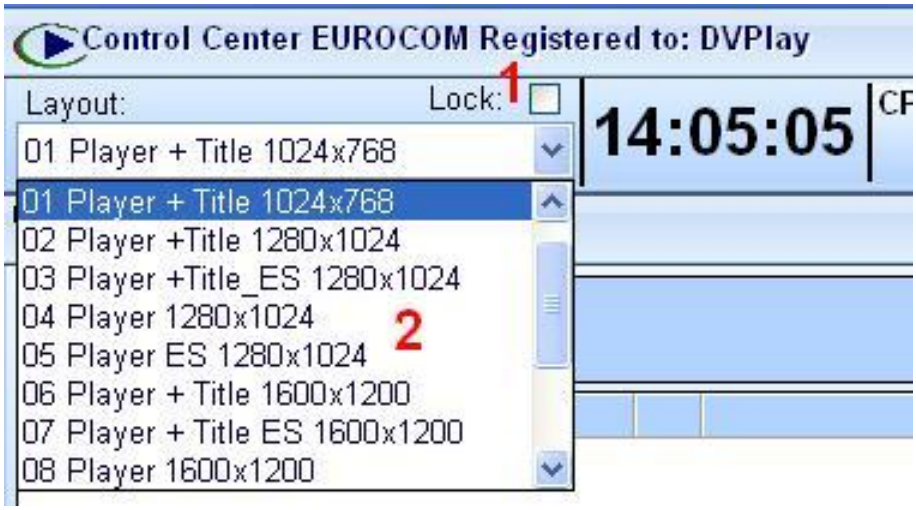
5.1. Control center layout

The Control Center is a primary module which controls other DVPlay's software modules. Control Center Layout gives you a possibility to choose which one of the available DVPlay modules you want to start and also its position and size on the computer screen. For example if you do not need to command external devices you do not need to start the DVPlay RS-232 module.

You can change the layout every time you want to start a new module as well as you can change the size of the module. Every layout may have counters that monitor important parameters of the computer.

There are many layouts defined by default. You may change your layout with idea to use optimally your screen resolution. To do this:

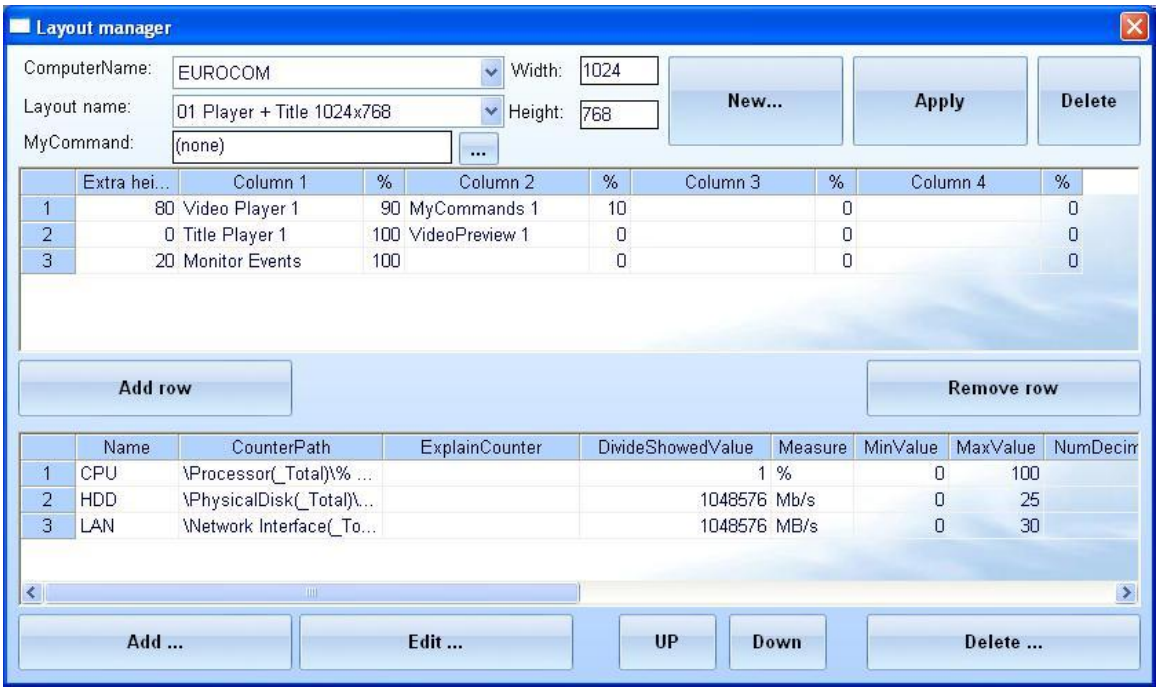
1. Uncheck Lock.
2. Select your layout.



Creating a new layout

1. Click.

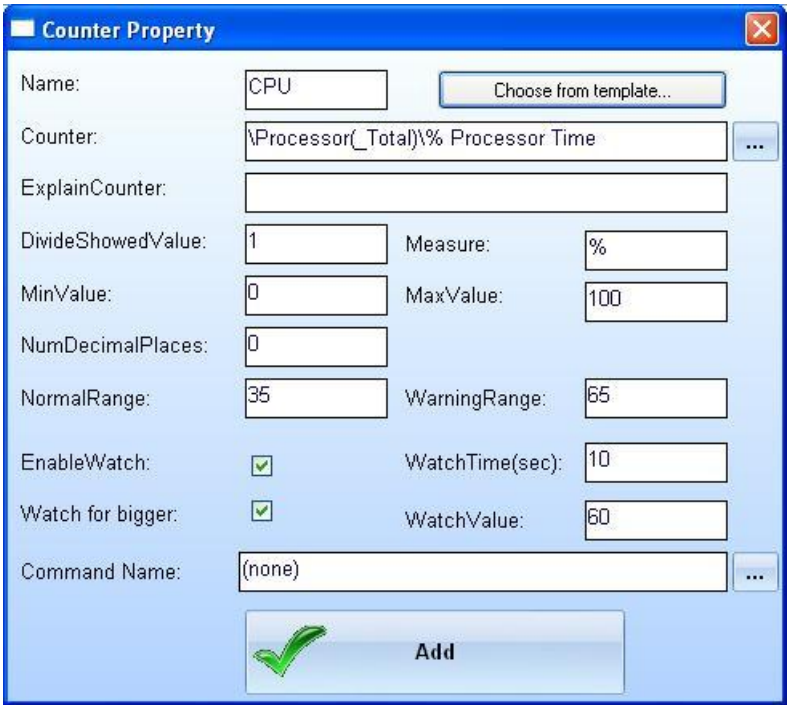
2. Choose *Set Layout.*


Layout manager
ComputerName: EUROCOM
Width: 1024
Layout name: 01 Player + Title 1024x768
Height: 768
MyCommand: (none)
New...
Apply
Delete
Extra hei... Column 1 % Column 2 % Column 3 % Column 4 %
1 80 Video Player 1 90 MyCommands 1 10 0 0
2 0 Title Player 1 100 VideoPreview 1 0 0 0
3 20 Monitor Events 100 0 0 0
Add row
Remove row
Name CounterPath ExplainCounter DivideShowedValue Measure MinValue MaxValue NumDecim
1 CPU \Processor(_Total)\% ... 1 % 0 100
2 HDD \PhysicalDisk(_Total)\... 1048576 Mb/s 0 25
3 LAN \Network Interface(_To... 1048576 MB/s 0 30
Add ...
Edit ...
UP
Down
Delete ...

3. Click *New* and insert a name for the layout.
4. Choose a screen resolution for the layout. It is recommended to choose the default screen resolution.
Note: The TV version includes many modules and it is recommended to set the resolution 1280x1024 pixels at least.
5. Click *Add row* as many times as the number of rows you want to add to the layout.
6. Click *Column 1*, *Column 2*, *Column 3* or *Column 4* and choose a module you want to add. Add all the modules that you want to be loaded when you start the DVPlay software.
Note: If you include the Video Player in the layout it has to be set in the first row on the left.
7. Click *Extra height* in order to set the module height.
8. Click column *(%)* in order to set the module width.
9. Click *Apply* to view the new layout

Adding counters to a layout

1. Click *Add.*
2. Click *Choose from template* and choose the previously prepared counters from the popup menu



Note: The default set of counters is designed for an English version of Windows OS. In a localized version you have to choose the corresponding counter using the button ... on *Counter* menu.

Editing the layout

1. Click and choose *Set Layout* from the popup menu.
2. Choose a layout from the *Layout name* drop-down list.
3. Edit the modules, their sizes or choose counters.

Back to contents

5.2. MyCommands

MyCommands module is designed to group two or more commands, which can be executed with a single action. It is a great help of the operators in case if for example he/she should perform fast actions like loading a playlist with specified name, sending command to video matrix or sending command for Start playing. All these 3 single commands can be grouped in 1 My Command action. We encourage all the customers to use it, because once the most used operations are organized in MyCommands the entire system becomes more useful and safe. You may have up to 9 MyCommands profiles providing access to many commands.

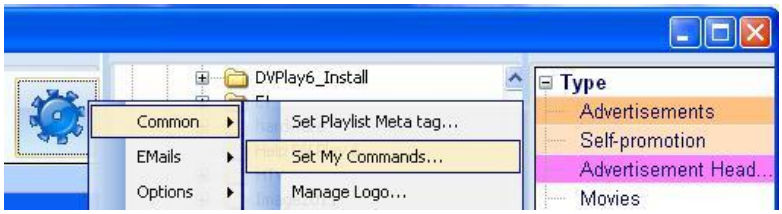
Starting a command
You may start a command by:

- double click on it
- select it and click MC

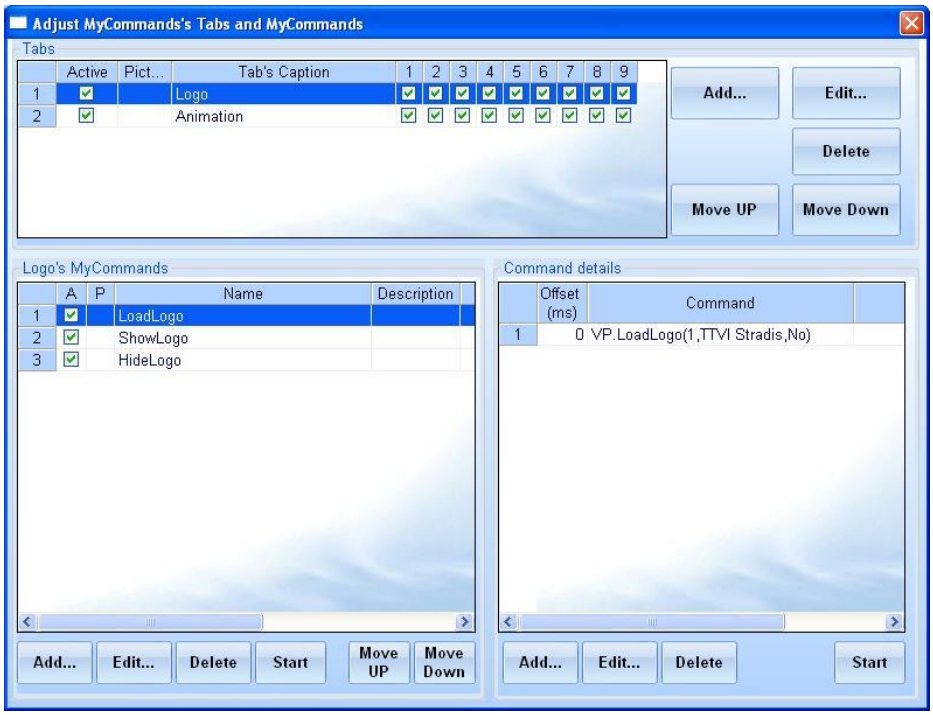
Manual starting
1. Select a command from *MyCommands* window.
2. Click 01.0 MC.
3. Select one of the buttons with numbers from 1 to 20 to set the *Count Down seconds* counter or insert h:m:30, h:m+1:0, h:m+1:30 to set the *Start Time:*

4. Click *Start Counter*.

Creating a new MyCommands profile – you need to start the PlayList program and choose a menu as shown on the screenshot below:

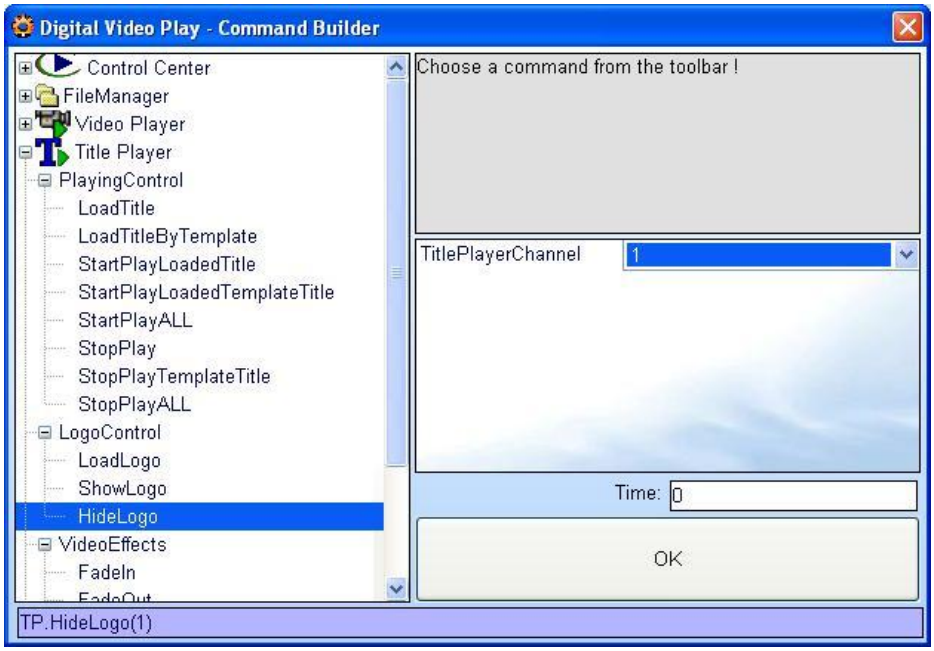


Then you have to go to the main menu to create or edit MyCommands profile. A list of different commands can be created in the left bottom section of MyCommands window. On the right section (Command details) we can see the currently selected commands in MyCommands profile.

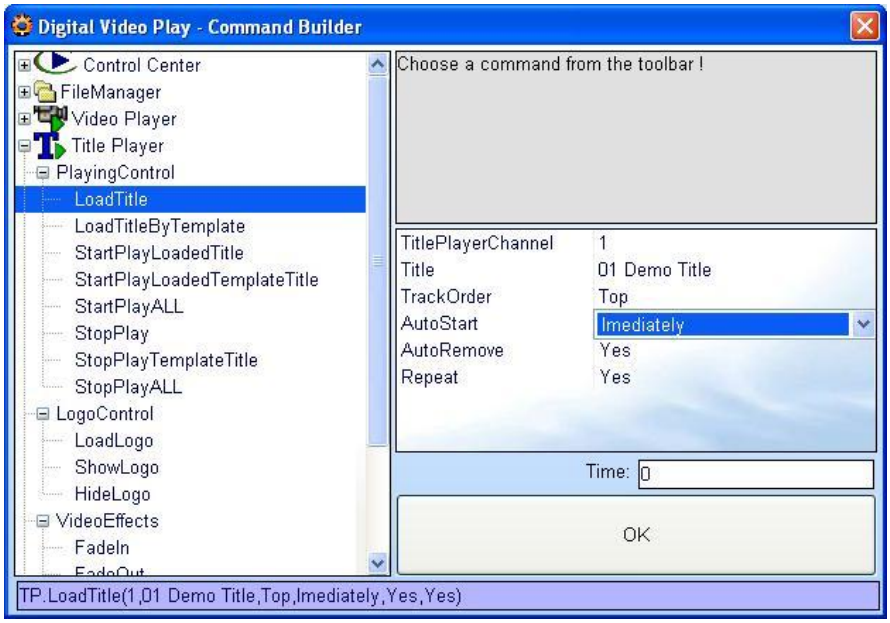


Following the next steps you can create a new MyCommands profile.

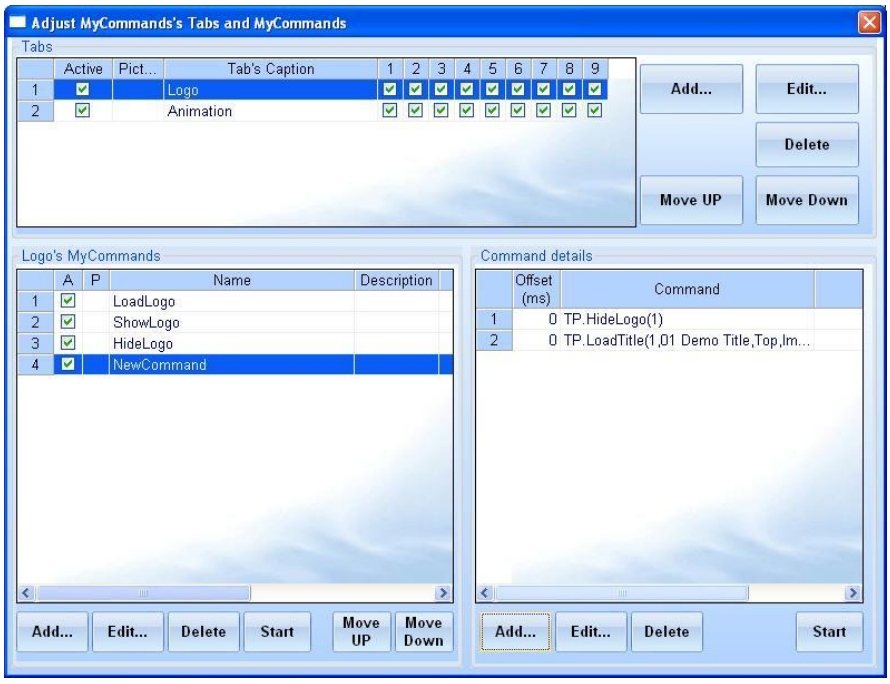
1. Click *Add* on *Logo's MyCommands* window.
2. Write down the name of new MyCommand item and then click the *Add button in Command details panel*.
3. Select the new command from the left table.
4. Click the *Add* on *Command details* window, navigate the menu and adjust the settings as shown on the screenshot below.



5. Click again *Add* on *Command details* window, navigate the menu and adjust the settings as shown on the screenshot below:



Our NewCommand is ready. It will hide the current logo and will start the Demo title.
The result can be seen on the following screenshot.



Here is our newly created MyCommands profile and it is ready to be used.

5.3. Events windows

The event window shows all the messages, coming from all the modules and is part of all the layouts. It allows the user to be notified about every single change in the data processing, made by the software. The messages can be filtered by time period and their properties.

	Date	Time	Kind Event	Module	Ch	Message
3	21.12.2011	14:21:27	Normal	Video Player	1	Video Player1 start playing file ISKAM - Ro_carnaval_40.mpg
4	21.12.2011	14:21:32	Normal	Video Player	1	Video Player1 stopped playing
5	21.12.2011	14:21:32	Normal	Video Player	1	Video Player1 stopped playing
6	21.12.2011	14:21:38	Normal	Video Player	1	Video Player1 start playing file ISKAM - Ro_carnaval_40.mpg

To filter the events by time period you have to use the following buttons: - for 1 day period, - for 2 days period, - for 3 days period, - for 1 week period, - for 2 weeks period.

To filter the events by selection you have to choose event with a searching value and then use the following buttons . Then only the messages with one and the same value will be shown.

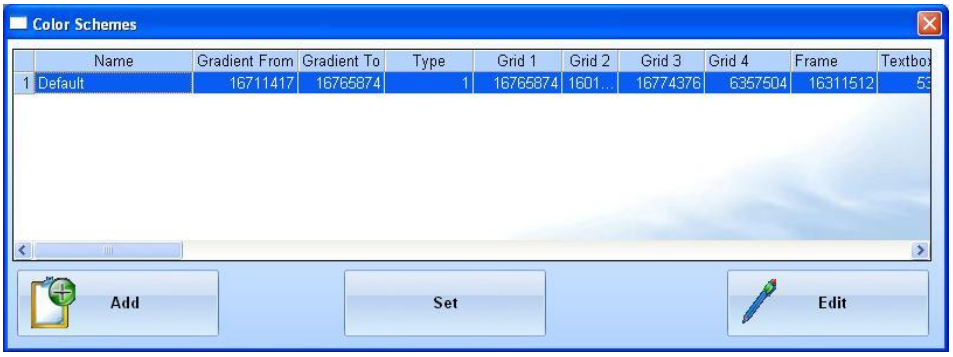
- this button allows you to filter the events by group. For this purpose you have to open the *PlayList Editor*, then choose *Options* and then select *Set event group* to make a group with the events that you want to include in it. - this button allows you to filter the events by kind . - this button allows you to filter the events by message. - this button allows you to filter the events by date. - this button allows you to filter the events by computer name. - this button allows you to filter the events by channel.

Back to contents

5.4. Color scheme

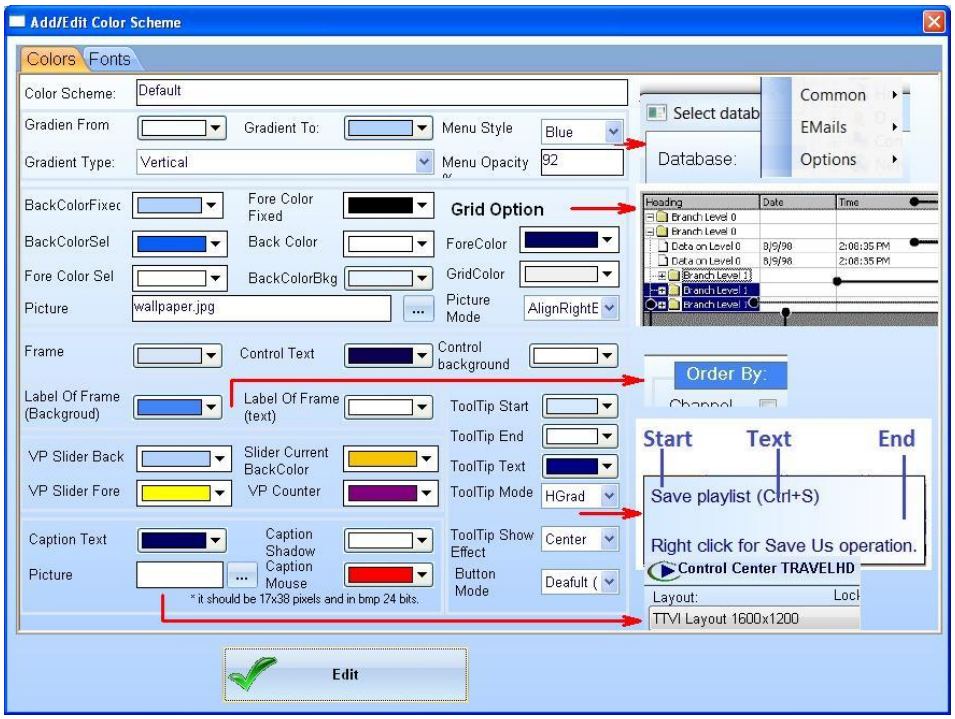
The Color scheme is used in all DVPlay modules and determines the color in which the different types of objects are shown. The menu is accessable from:

There may be defined many color schemes, but in a time you can use only one.

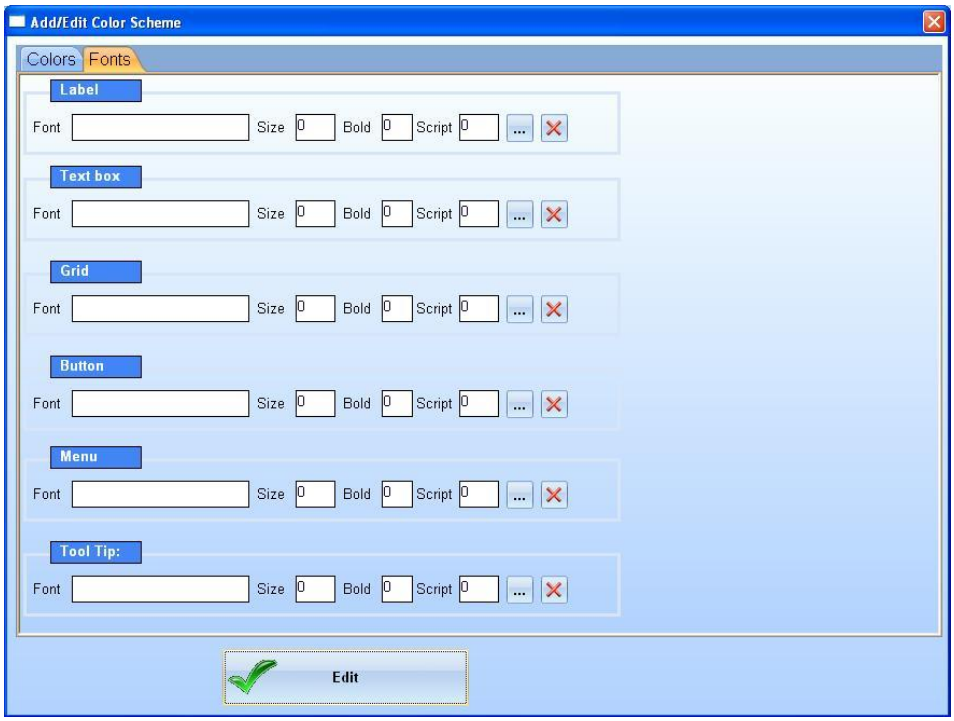


The button Set is used to instruct DVPlay software to use the currently selected scheme.

With the button Edit we have these options.



You can also edit fonts. Empty fields mean that the default font will be used.



Note:

1. You are encouraged to add a new color scheme. To define a new color scheme is not an easy task, but you may change only one element – like picture used as a wallpaper in tables (wallpaper.jpg) or button mode.
2. When you create a new scheme you will be asked which scheme to use for initialization. This makes the process easer as you just need to edit an existing scheme, not to create a new one from the beginning.
3. The recommended way is to create a new color scheme then to edit the default one. Then if you set wrong settings in your color scheme you can return to the default color scheme.

Back to contents

6. Scheduling

6.1 General description

Scheduling is one of the **most powerful** and **most used** DVPlay option. The software is designed so that about 99 % of all its possible actions can be scheduled. Although setting a schedule is a complicated task, once the schedule is done usually the only action which the operators should do is to create the playlists.

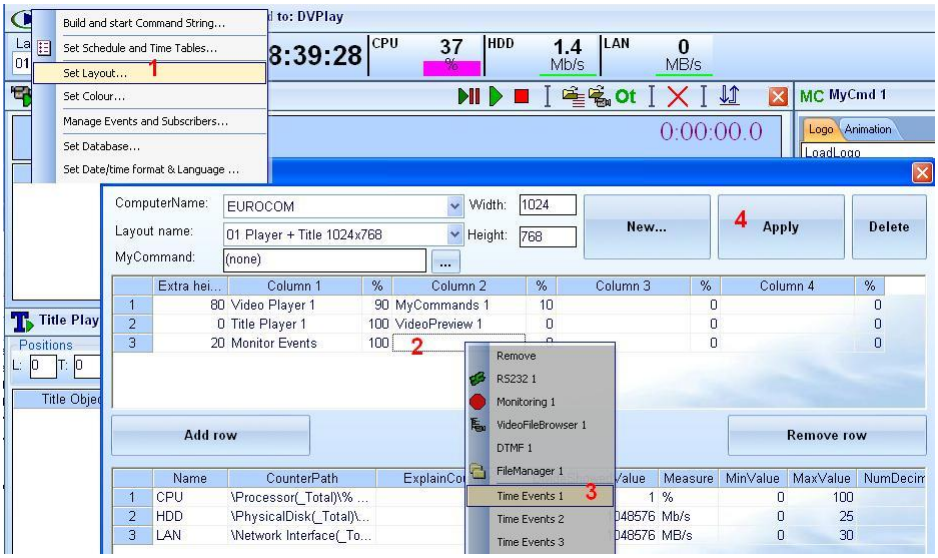
A proper setting of the schedule is very important and allows you to deal with emergency disaster cases which may appear.

DVPlay schedule uses TimeTable objects. The TimeTable is a list with commands and time in which they should be started. You may have as many TimeTables as you need.

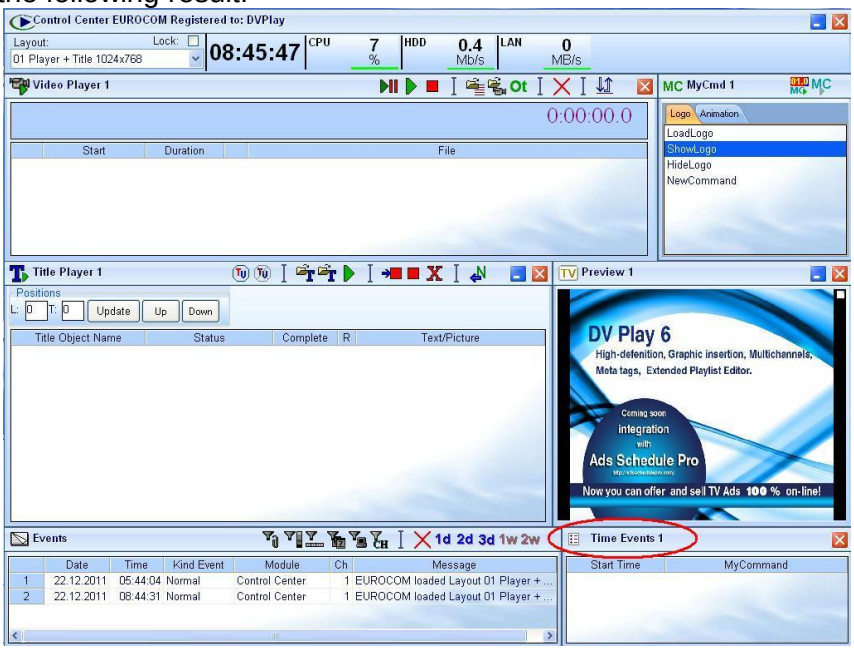
But to have a defined TimeTable is not enough to start your schedule. To start using a schedule there are 2 basic steps:

1. Define the time tables
2. TimeEvent module should be started /included in your Layout/

The TimeEvent module should be included in the Layout. By default it is NOT included. Follow the next instructions to find out how to start the Time Event module:



You should receive the following result:



6.2 Define a time table

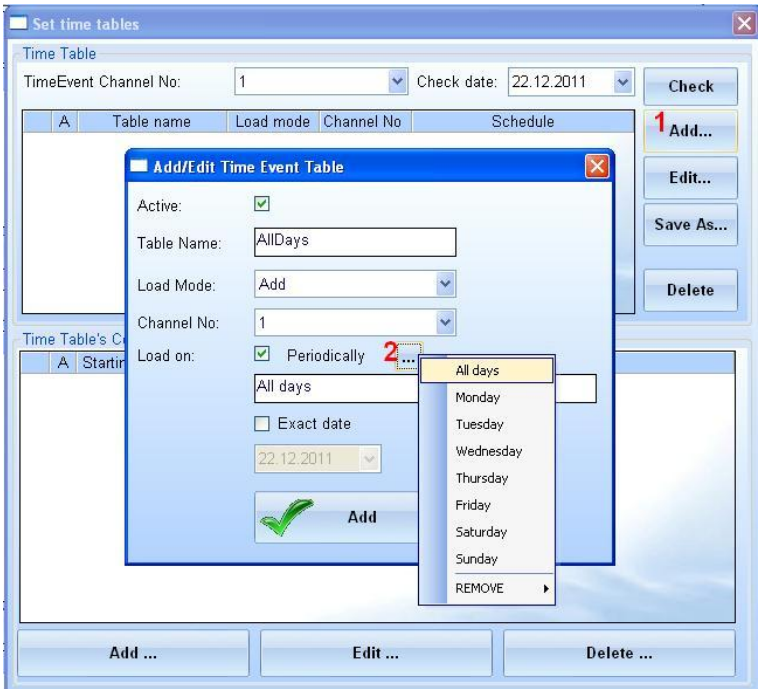
To define a time table we should set 2 logical groups of parameters

1. Execution Date.
2. Commands and time for its execution.

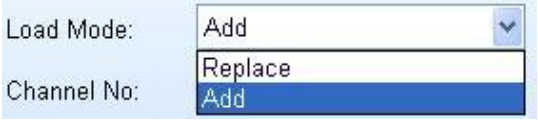
6.2.1 Execution Date

You can add a time table following the screenshot

Click *Add* on the *Time Table* window.

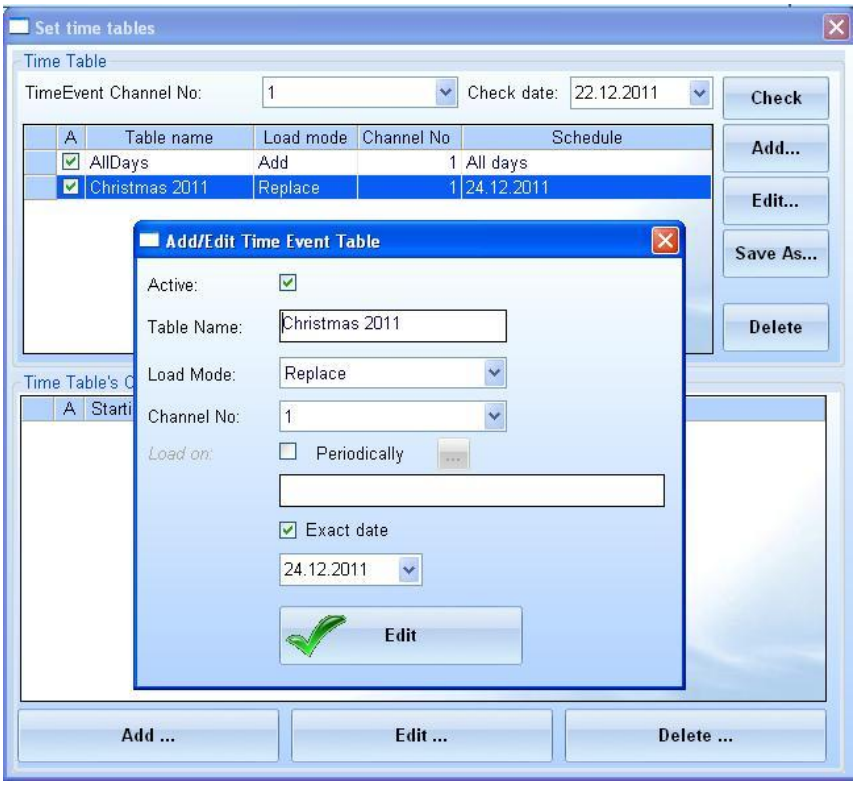


Each table has two modes of command loading - Add and Replace.



The Time Tables, loaded by using Add, are added to the Time Event window. If you have 2 time tables for Monday with Add mode on Monday both will be executed. But if you have a table with Replace mode for Monday then on Monday the replace time table will be executed and all other time tables will be rejected.

The Table can be defined for the day of the week /Monday, Tuesday …/ or for an exact date. Look at the screenshot:



In the previous step we set a TimeTable with Add for all days. But as the Christmas 2011 table is with Replace mode on 24.12.2011 it is the only time table which will be executed.

To check the time tables which will be used for a specific date you can use the field **Check date** and **Check** button.

You should avoid the scenario in which for a day have 2 timetables with Replace mode. You have no any warranty which of both Replace timetable will be executed.

6.2.2 Commands

A time table can have as more commands as you need. To define a command, follow the instructions:

1. Select a time table.
2. Click *Add* on the *Time Table's commands* window.

3. Type the preferred starting time in the *Starting Time* field, choose *Start mode* and click *MyCommands* or *Command Builder*. Note that you add only time, the date is determinated by the TimeTable, not by the command.
4. Click *Add.*
5. You can repeat the steps 2, 3 and 4 to add another command.

The commands in the table can be loaded by using two Start modes: FutureTime and Always. With the help of the FutureTime mode a command can be loaded only if the time of the loading is before the starting time of the command. With the help of the Always mode a command can be loaded without any time limits and can be started immediately, even though its starting time may has been in the past.
The difference between the two modes can be seen in case for any reason like power failure or DVPlay software is NOT started AT THE TIME when the command should be executed. For example we have 2 commands which should be executed at 6.00 a.m. – one with FutureTime and one with Always, Our server was powered off at 5.50 a.m and we switch it on at 6.30 a.m. Then the command FutureTime will NOT be executed, while the command Always will be executed.

A proper setting of Start Mode allows you to set a schedule which will be correctly executed even if you need an emergency restart of your video server. This is very useful in many cases like – your server is in data center and it is 3 a.m. – then you can simple instruct the duty operator to do a power restart of your server. After restarting on the server will automatically load the right playlist and will start playing AT THE RIGHT time. The files which should be played at the time when the video server was off will be skipped.

Notes:

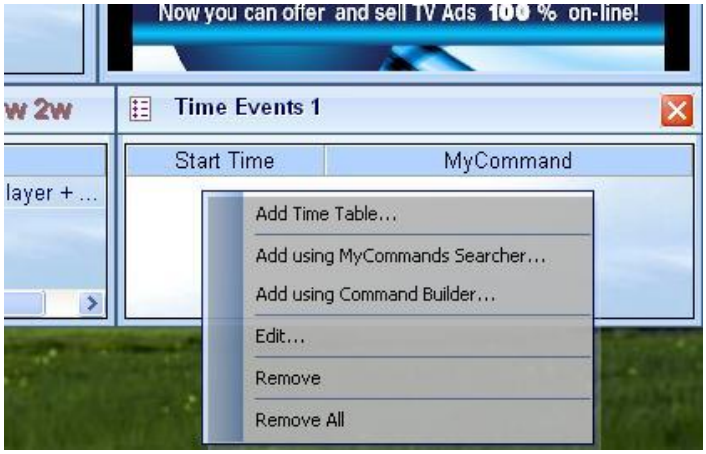
1. Avoid put commands in schedule which starts at exactly the same second. You are not guarantee which command will be executed first.
2. Some commands need time to be executed. If your next command demands that the previous command has been finished please start the next command some seconds later. The Start/stop commands usually need 1 or 1.5 second to be executed.
3. You are able to test the schedule with returning back your system time and restart DV Play software. Also note that in most cases you should turn off the Windows auto synchronize.

6.3 Add TimeTables to the Time Event module

The Time Event module is an actual DVPlay module which reads TimeTables and sends its command to the software. The module reads all Active timetables and loads it for execution for current day at 00:00:00.

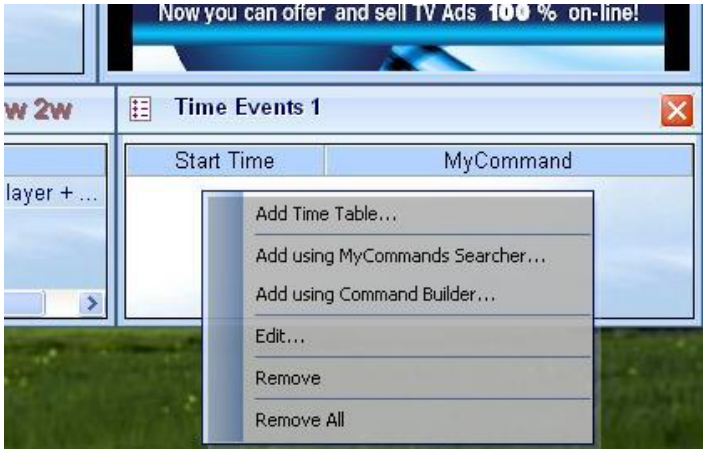
Add TimeTable to the TimeEvent module is done automatically every day after midnight. If you want commands to be loaded manually you can read this chapter. The manual loads of the commands can be used for testing your schedule.

To switch on a time table to the Time Event module
1. Click anywhere on the *Time Events 1* window.



2. Choose Add Time Table and on the next popup menu select the TimeTable which to turn on

To switch off a time table from the Time Event module
1. Click anywhere on the *Time Events 1* window.



2. Choose Remove and on the next popup menu select the TimeTable which to turn on.

Note:

1. You may add a command. It will be executed only once on the current date and the time you set.

6.4 Common scheduling use.

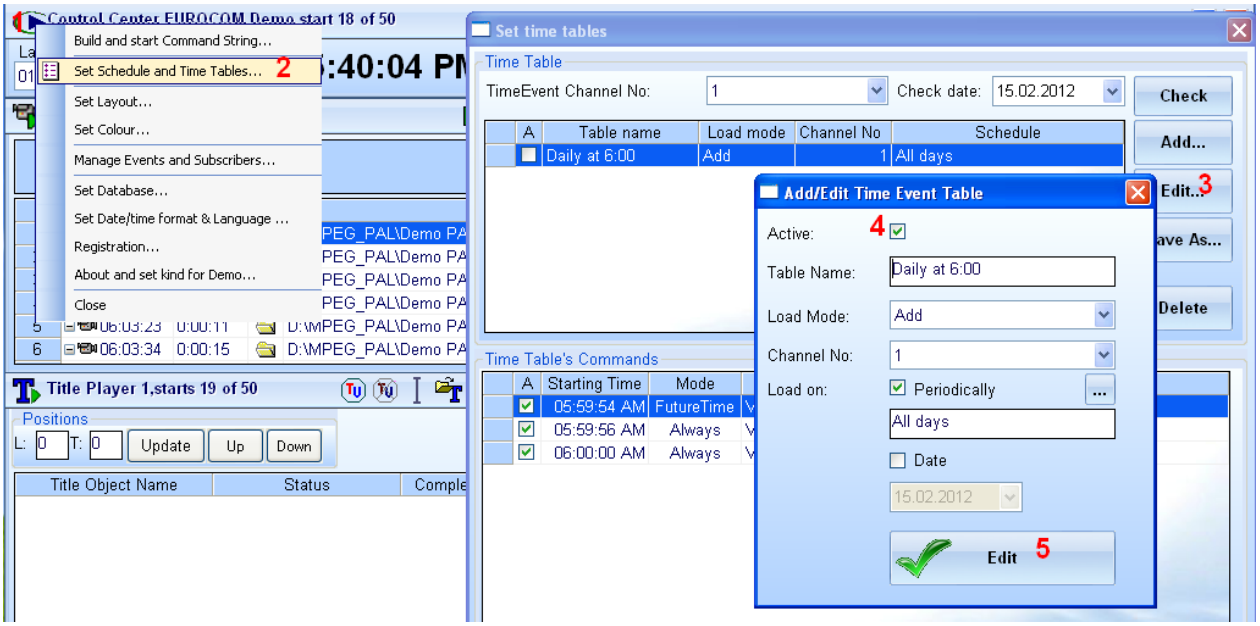
6.4.1 Set schedule

Many DVPlay customers use the schedule in this way:

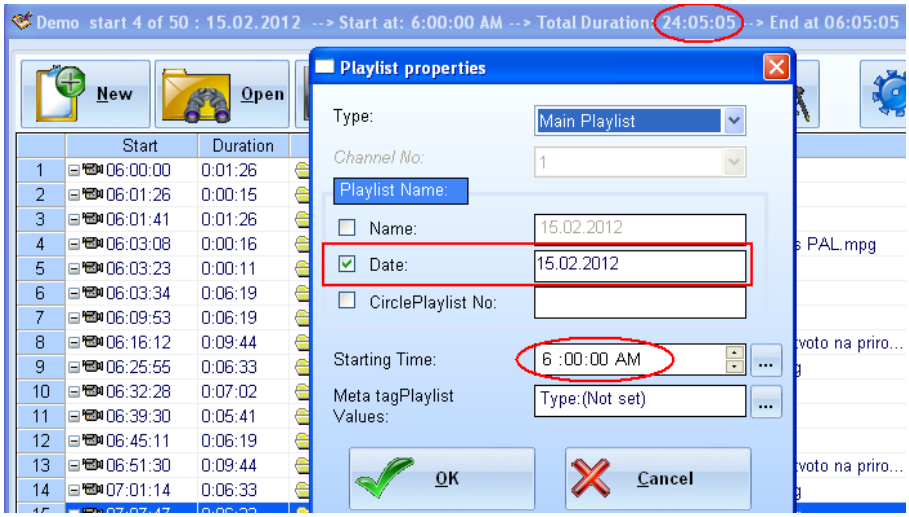
1. There is **1 main playlist for every day with 24h duration**. If it is to be loaded on 24.11.2011 at 6.00 it should be ready until 24.11.2011 5:59.
2. The playlist **always starts at one and the same time** – for example 6.00 a.m.
3. If for any reason like power failure, the video server stops when it is started, it find a proper time and will start from correct time. **This mean that advertisements scheduled in 8 p.m. will be played in 8 p.m without need to do manual correction.**

Note: A schedule with such kind of functions is defined by default in the database. To activate it, you should include TimeEvent module in your Layout and follow those steps:

1. Activate the already defined TimeTable.

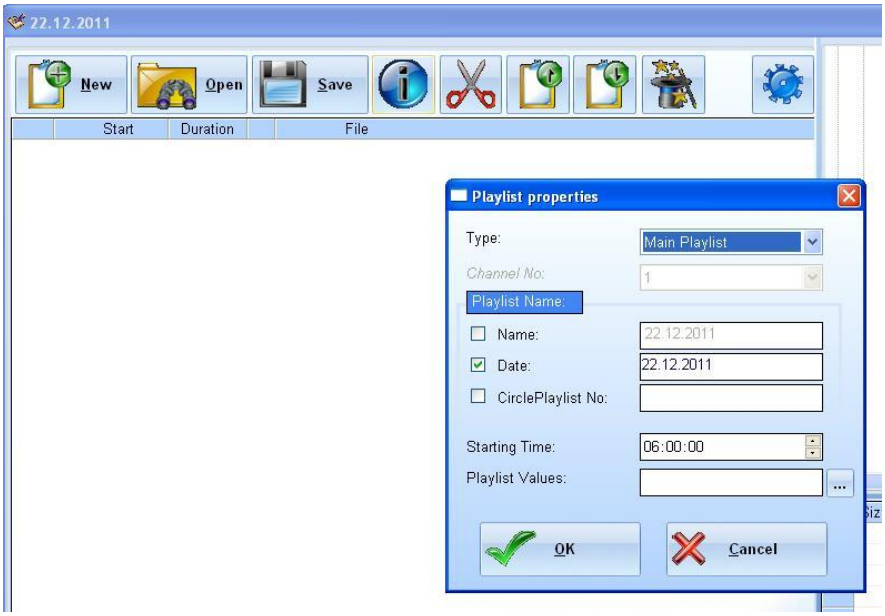


2. Create a playlist for current day with 24 hours duration and starting time 06:00:00 . Your playlist can be more than 24 hours duration, anyway at 6.00 the current playlist with be changed with new one. Also note that last 6 seconds playing will be stopped – from 5:59:54 to 6:00:00 will be broadcasted the frame of the file being played at 5:59:54. This behavior add few seconds empty broadcast but this is simplest and most useful way to ensure that any time difference will be fixed and your new playlist will start at exactly 6:00, meaning that you commercial scheduled in 10 a.m. will be broadcasted in 10 a.m, not in 10:00:03 a.m. ,if for example there is 3 second inaccuracy.

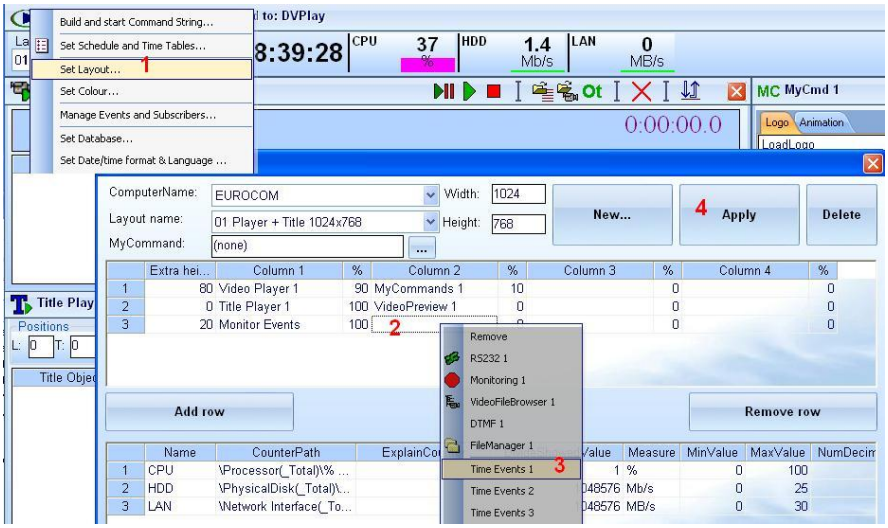


If you want to do the schedule on yourself here you are the instructions how to release such scenario with scheduling:

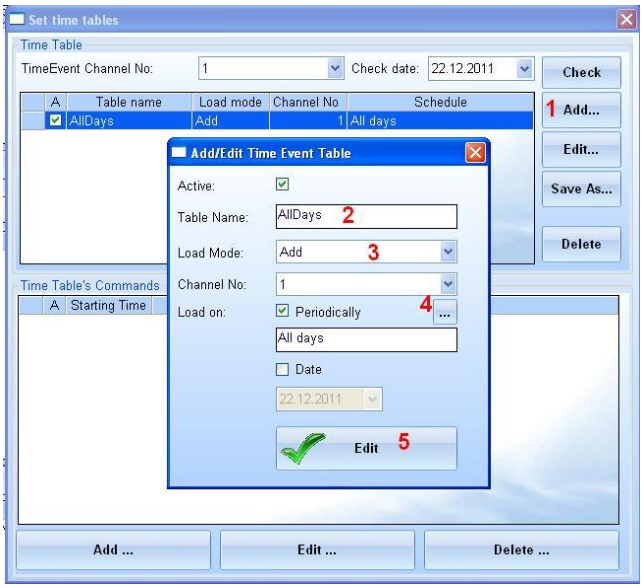
1. You should create a playlist with the help of the *PlayList Editor*. The playlist name should be the date on which we want the playlist to be started-for example 20.12.2011. The starting time should be set.



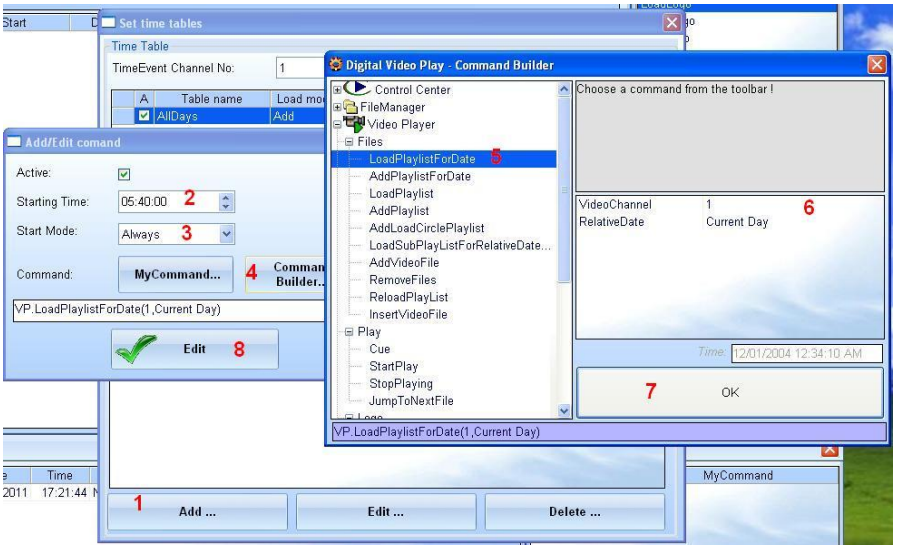
2. Add time events to the layout /if the time event module is not yet added/



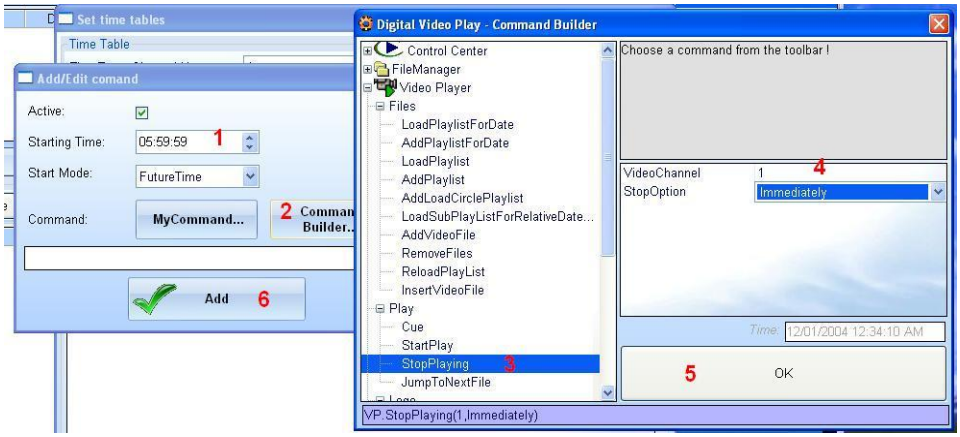
3. Now you have to create a time table. Choose *Set Schedule* from the *Control Panel* menu and then – *Timetable*.



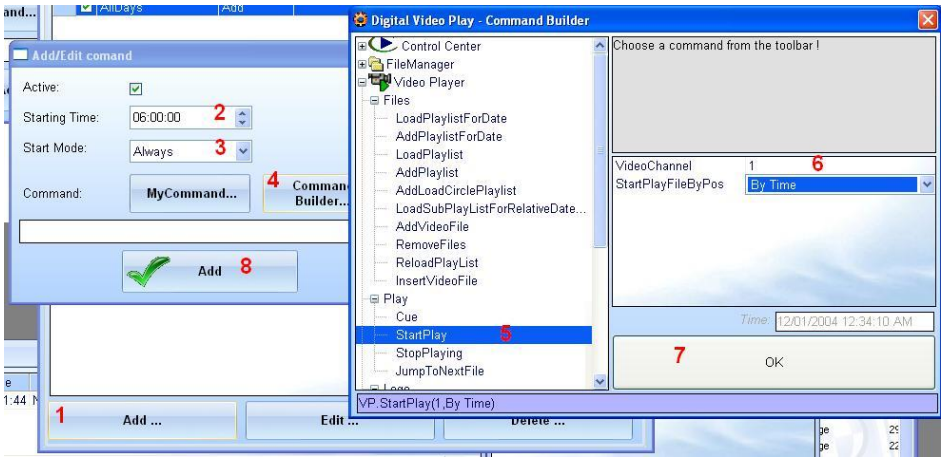
4. Add the command to the time table, which will load the current playlist.



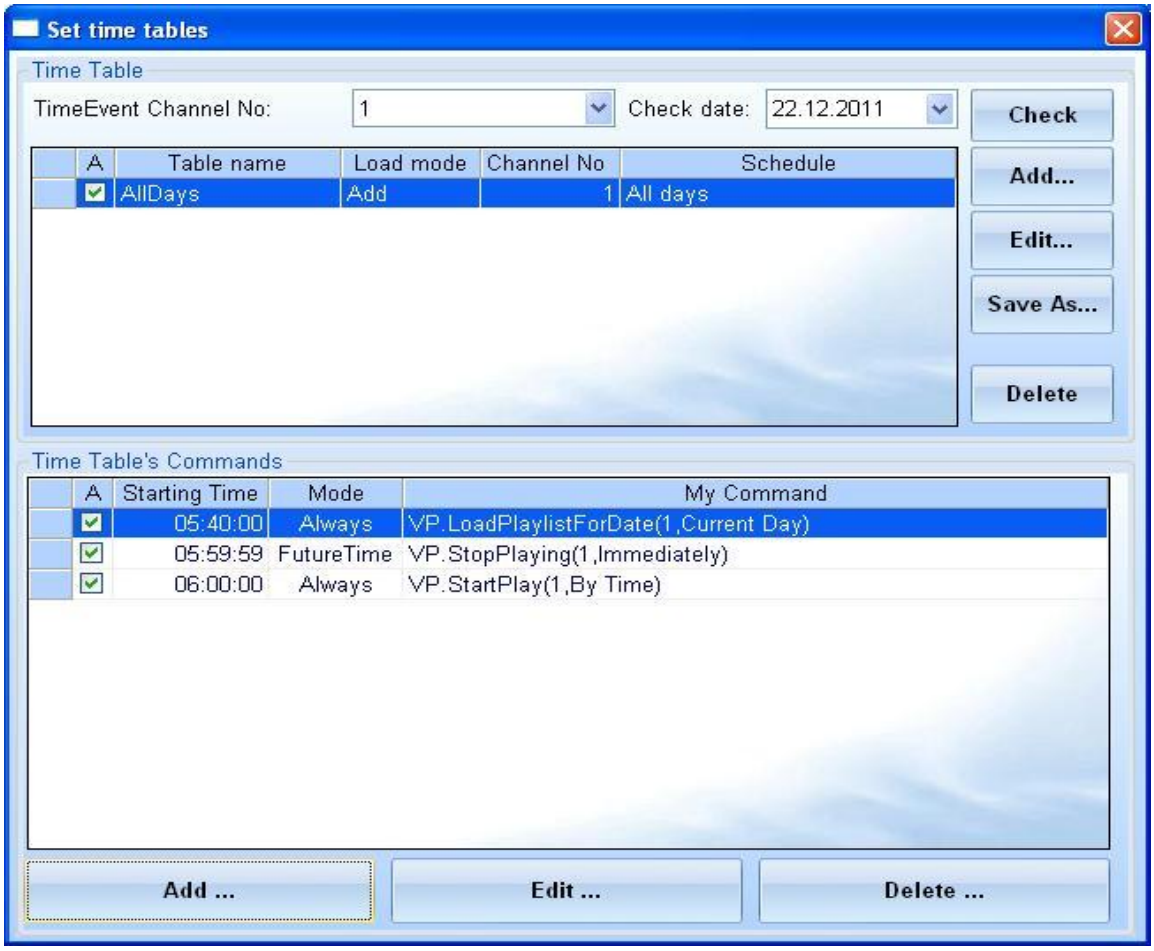
5. Add the command, which will stop playing the current file.



6. Add the command, which will start playing the new playlist

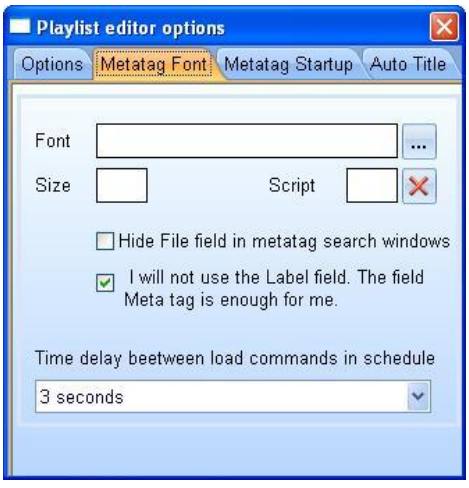


Finally you should have these 3 commands created:



7. Now you have to assign the command by right clicking on the *TimeEvent* module choosing from there Add *TimeTable* and then the *AllDays* table, which we created before.

Note: The execution of the 2 commands - for example Play and Stop at exactly 10:00:00 will lead to an unpredictable result. Because of this DV Play software have the parameter Minimal time between the execution in schedule located in PlayList editor as is shown on next screenshot.

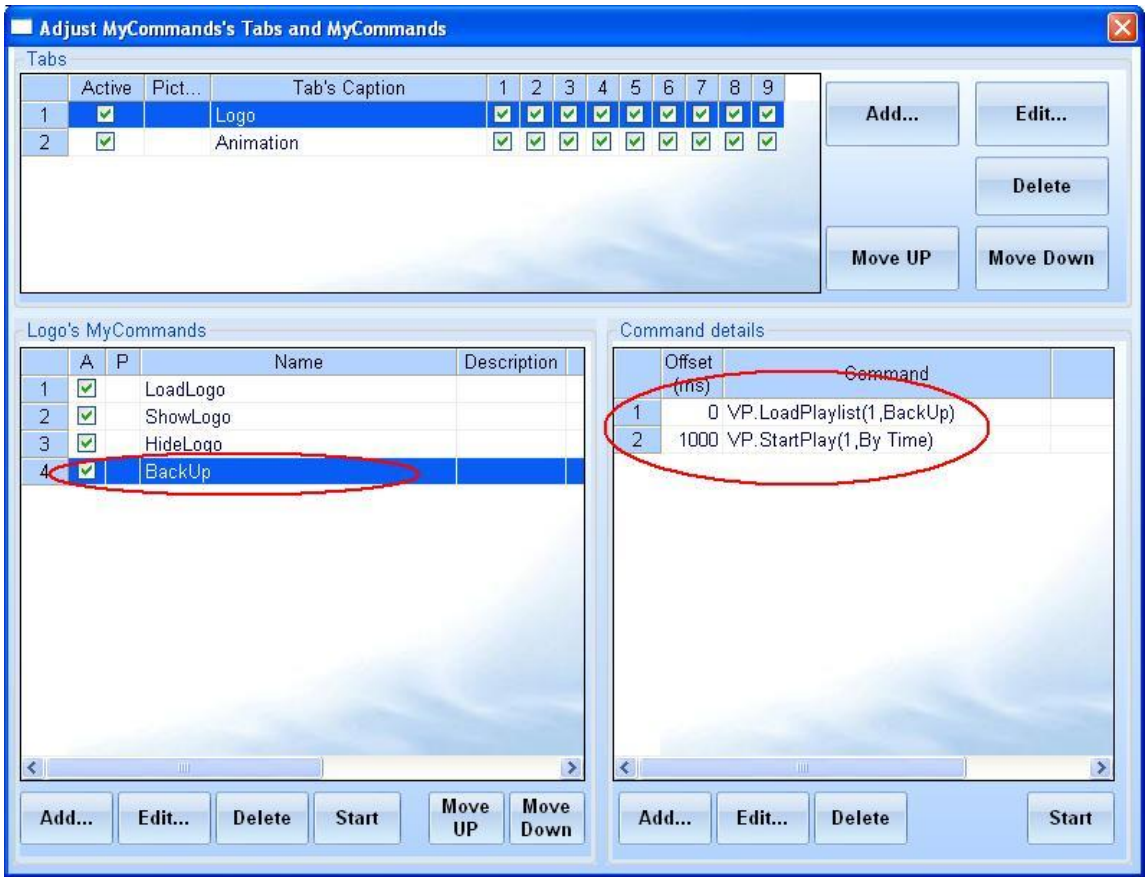


6.4.2 Set backup playlist for schedule

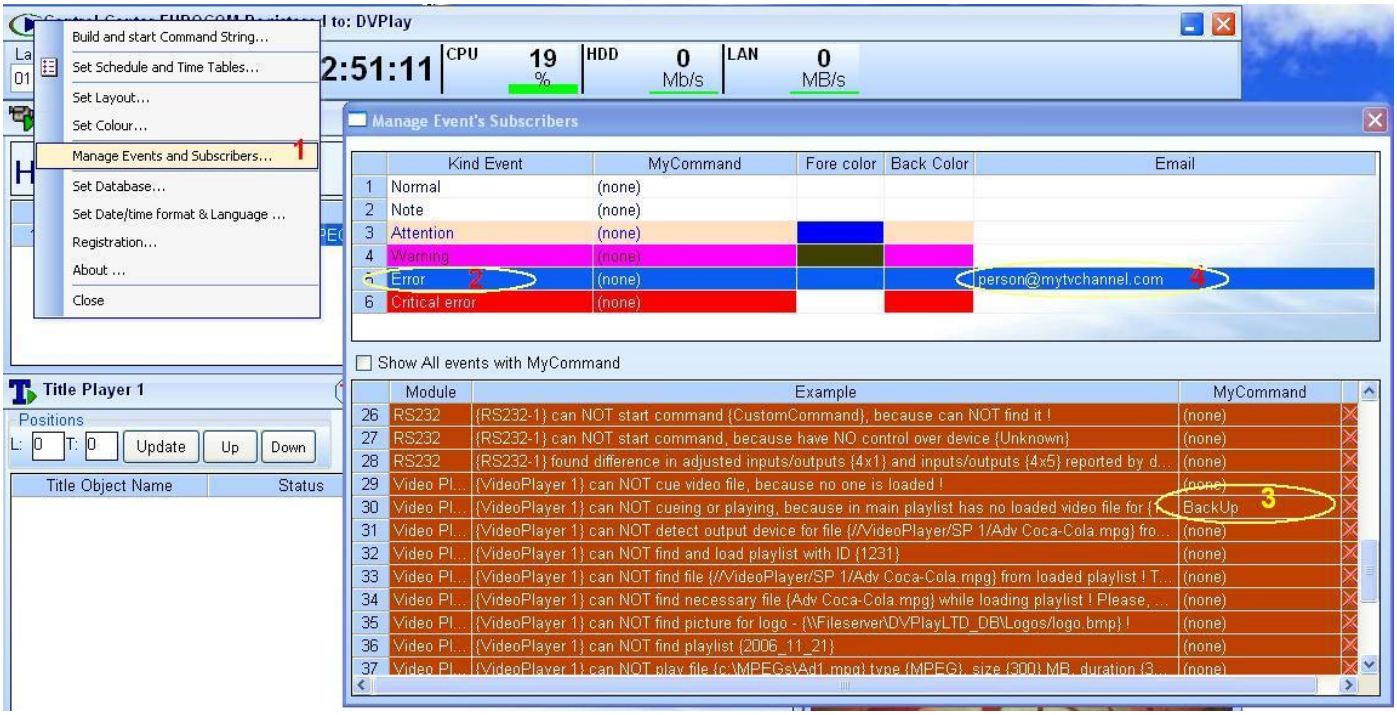
The schedule **relies** that the playlist named like the **current date exists**. In this chapter is described how to set the DV Play software to **load backup playlist** in case when the **daily playlist is missing** /due to operator error/. In such scenario the DV Play software can not only load backup playlist, but also can send email to the responsible person notifying that the daily playlist is missing and an emergent backup playlist have been loaded.

Step 1 – Create a backup playlist with PlayList Editor.
The backup playlist should be the main playlist with 24 hours duration and should have the same starting time like your daily playlist – for example 6.00 AM.

Step 2 – Create MyCommands which loads this Backup playlist.
Look Chapter 5.2 MyCommand . Your MyCommand should look as shown on the following screenshot:



Step 3 – Set the event on which the backup playlist should be started


Build and start Command String...
Set Schedule and Time Tables...
Set Layout...
Set Colour...
Manage Events and Subscribers...
Set Database...
Set Date/time format & Language ...
Registration...
About ...
Close
1
CPU 19 %
HDD 0 Mb/s
LAN 0 MB/s
Manage Event's Subscribers
Kind Event
MyCommand
Fore color
Back Color
Email
1 Normal (none)
2 Note (none)
3 Attention (none)
4 Warning (none)
5 Error (none) person@mytvchannel.com
6 Critical error (none)
2
4
Show All events with MyCommand
Module
Example
MyCommand
26 RS232 {RS232-1} can NOT start command {CustomCommand}, because can NOT find it ! (none)
27 RS232 {RS232-1} can NOT start command, because have NO control over device {Unknown} (none)
28 RS232 {RS232-1} found difference in adjusted inputs/outputs {4x1} and inputs/outputs {4x5} reported by d... (none)
29 Video Pl... {VideoPlayer 1} can NOT cue video file, because no one is loaded ! (none)
30 Video Pl... {VideoPlayer 1} can NOT cueing or playing, because in main playlist has no loaded video file for {... BackUp
3
31 Video Pl... {VideoPlayer 1} can NOT detect output device for file {//VideoPlayer/SP 1/Adv Coca-Cola.mpg} fro... (none)
32 Video Pl... {VideoPlayer 1} can NOT find and load playlist with ID {1231} (none)
33 Video Pl... {VideoPlayer 1} can NOT find file {//VideoPlayer/SP 1/Adv Coca-Cola.mpg} from loaded playlist ! T... (none)
34 Video Pl... {VideoPlayer 1} can NOT find necessary file {Adv Coca-Cola.mpg} while loading playlist ! Please, ... (none)
35 Video Pl... {VideoPlayer 1} can NOT find picture for logo - {\\Fileserver\DVPlayLTD_DB\Logos/logo.bmp} ! (none)
36 Video Pl... {VideoPlayer 1} can NOT find playlist {2006_11_21} (none)
37 Video Pl... {VideoPlayer 1} can NOT play file {c:\MPEGs\Ad1.mpg} type {MPEG}, size {300} MB, duration {3... (none)
Title Player 1
Positions
L: 0 T: 0 Update Up Down
Title Object Name
Status

Note:

1. You should click over the oval areas shown on the screenshot.

With a click on the oval 4 you set the email notification. The email manager comes with default settings and in most cases it should work without a need to do any additional settings.

Back to contents

7. Meta tag library

7.1 General description

The Meta tags are used in the process of playlist creation. In general the meta tag library means that you **add additional information** for your video files and later **for searching** in this information helps you **easier and faster** to select files to add in the playlist.

DVPlay implements his **own original ideas** about the files organizing with meta tags. We are focused on a simple implementation with basic functions only as usually as more functions have a solution more complicated is to work with it. Often a solution realizes so many functions in a complicated way so few people use it.

When you create a meta tag for a file the software saves its directory parts and file name. If you change the directory or the file name your meta tag will not know where the file is. You should know that once you have created a meta tag for a file you **should not change its directory or renamed it**. One way to have more flexibility and to meet these demands is to share via LAN your directories and to add files via this sharing – for example //videoserver/movies/Song1.mpg. The benefit of this is that you can easy change the actual location of the file, for example to copy files from the driver D: to the driver E: but when sharing the address still will be //videoserver/movies/Song1.mpg

Although it not makes a technical error our recommendation is to add a file / video in the meta tag library with the **unique file name.**

You can **assign a color** for the Meta tag value. When you insert a file with the Meta tag you will see this color in your playlist. We **encourage you to use the color with meta tag** as this makes your playlist much more easier for an operator to read/check it. Look at the next screenshot on which with red color is marked the start and the end of the commercial block. In case you forget to put the Advertising header file showing that the commercial block is started/finished you can very easily see it.

In a playlist you mix files with meta tag and files without meta tag (inserted from your HDD). We encourage you to use meta tags for all your videos, or at least for some type of files because later you will have statistics over it.

The Meta tag features are available **only with TV and HD version.**

The feature is **100 % Unicode compatible**. You should set Windows to be able to type your letters on your language as it is shown on the following screenshot:

The DVPlay software implements 2 meta tag systems - meta tag playlists and meta tag files.

The Meta tag playlist gives you options to group the files in a defined by your lists – for example Advertisement, Movies, Sound. When you create the playlists you can review your lists and select the file.

The Meta tag files give you options to add keywords to a file describing more precisely the file. While the meta tag playlists is proper to set to a file like – Songs – Rock, you can use the meta tag files to add the author of the song – for example Elvis Presley. When you create the playlists and want to add sound from Elvis you can easily search and find all Elvis songs you have.

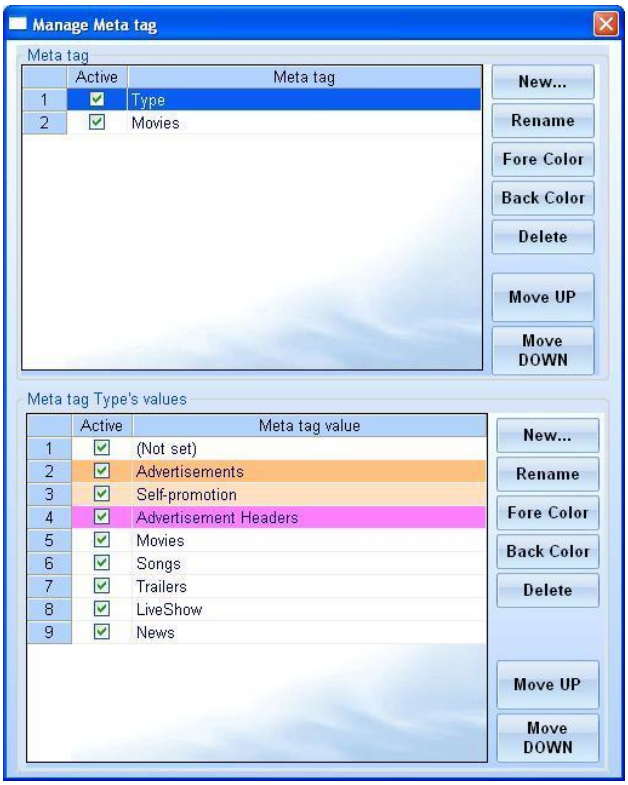
You can use the first or the second or both systems, it depends on your choice. Read the next chapters to find out how to use these systems.

7.2 Meta tag playlist

7.2.1 Define a meta tag playlist value

You can add / Edit meta tag values from the PlayList editor.

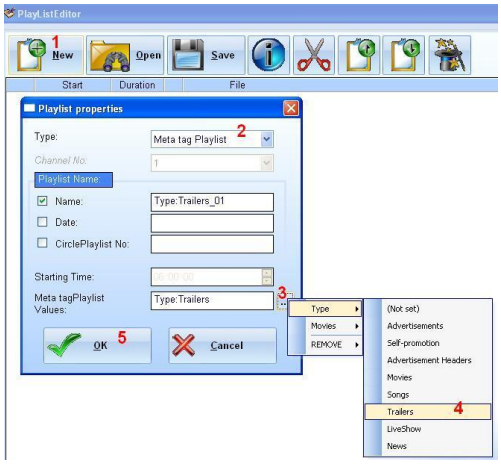
The Metatag playlist values should be defined on 2 levels – for example Type – Advertisements, Movies, Trailer, etc, Movies – Comedy, Crime, etc. The DVPlay software comes with some default values which you are free to delete/rename.



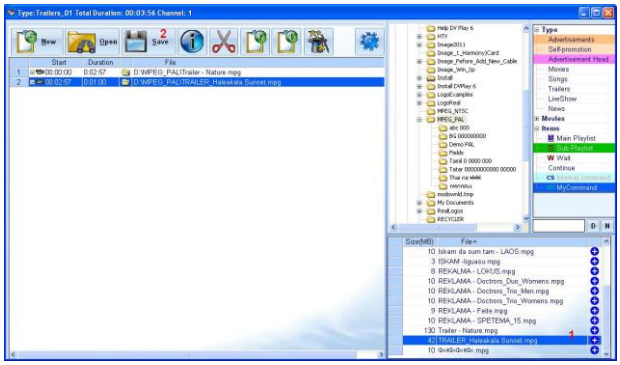
The recommended way is to set a color only on the meta tag Type's Values /see the down table/

7.2.2 Add a file to the meta tag playlist

1. Create a playlist as it is shown on the following screenshot:

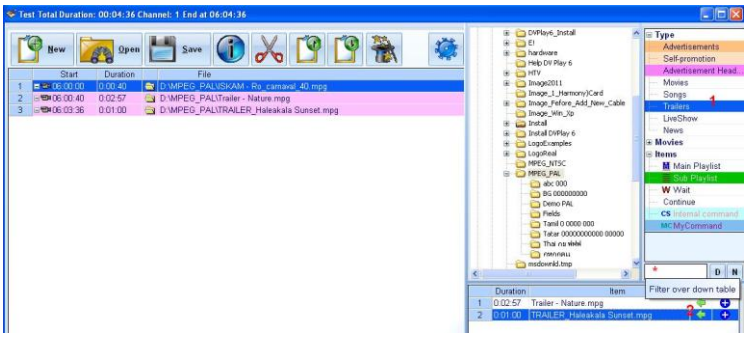


2. Add the files to the playlist and Save them.



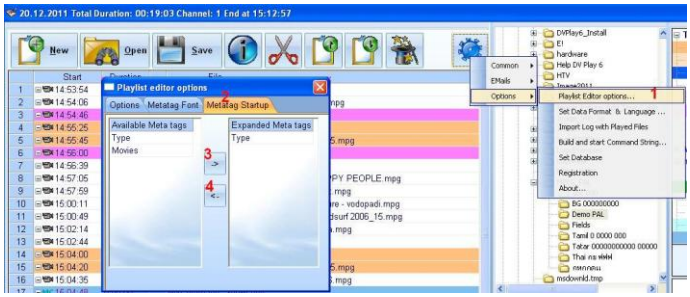
7.2.3 Search for a file in the playlist meta tag

Create a new main or sub playlist. On the next screenshot is shown how to search in the meta tag playlist



Note:

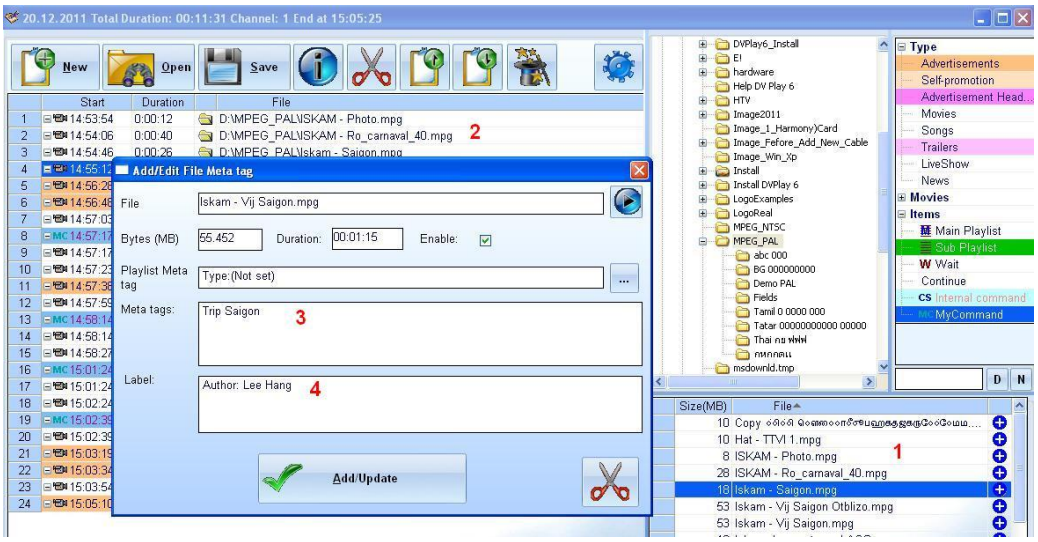
1. You can use the field Filter /marked with */ to filter the down table.
2. You may select the meta tag playlist which is expanded by default. Look at the next screenshot:



7.3 Meta tag file.

7.3.1 Add a file to the meta tag playlist

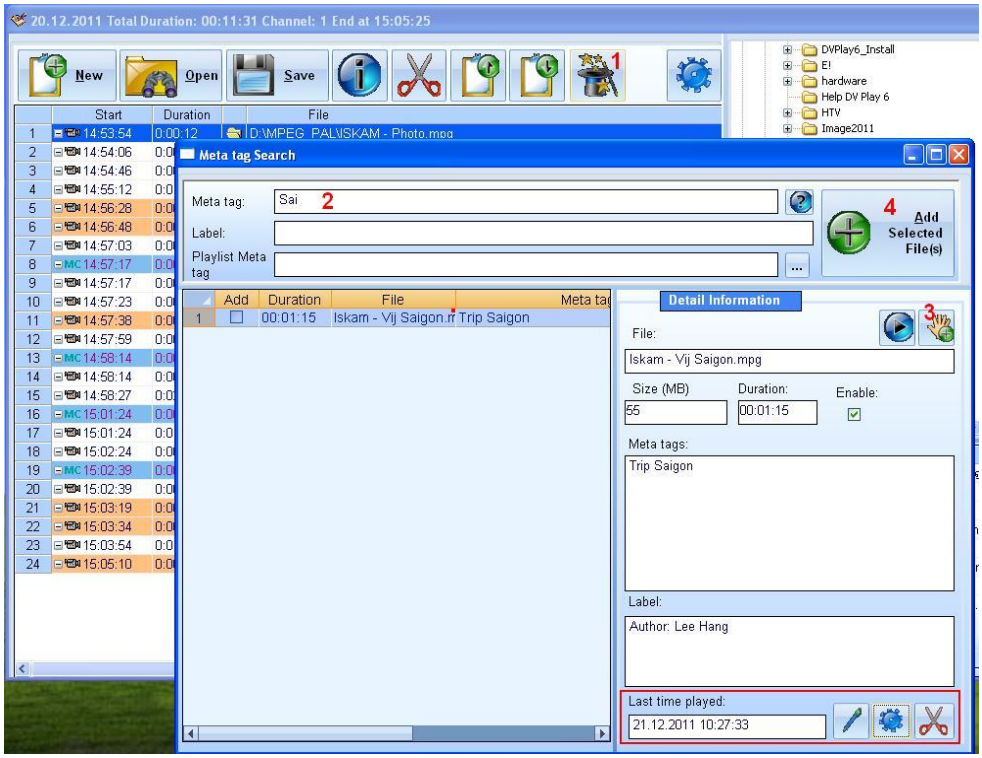
To add a meta tag to a file you should make a dbl. click on the position 1 or 2 and follow the next steps 3 and 4.



The label fields may not be filled. Their function is the same as the meta tag, but later you may search on Meta tag or on Label fields. So it is a good idea that some type of information is put in the meta tag field, while other type always stay in Label.

7.3.2 Search for the file in the playlist meta tag

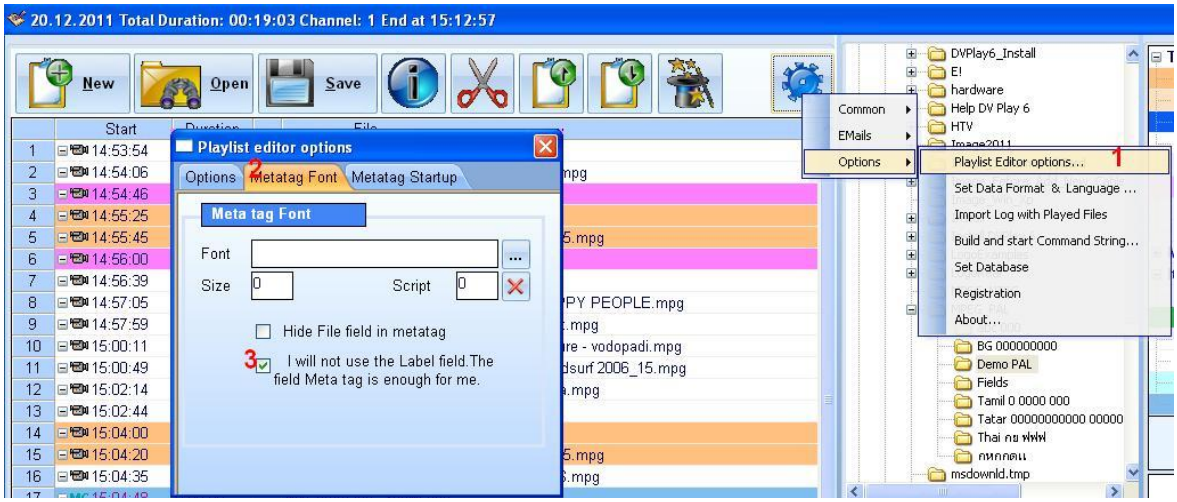
To search for a file with a meta tag follow the next steps.



You may add more than one file using the step 3.

You may use options marks with the red rectangle to edit a meta tag directly from here. Also you can get information when the file was played the last time.

Note:
If you find that Meta tag field is enough for you, you may switch off the Label field. To switch off the Label field you should follow the screenshot.

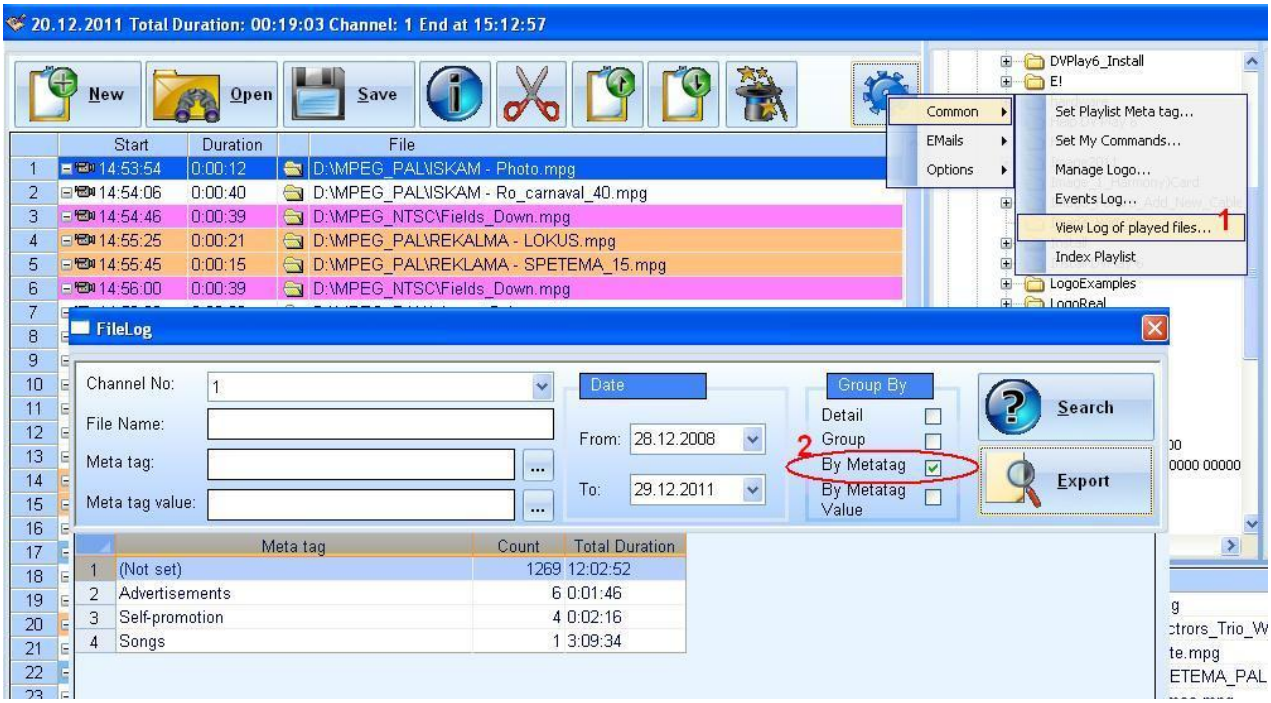


Here you may also set a specific font for the Meta tag fields and its size. If you are using an Asian language you may find useful to change the font or increase the font size.

Hide File fields in the meta tag will gives you more space to review the meta tags without need to click over it. Look at the previous screenshot /Chapter 7.1.3/ on the fields File with small red square in the up right corner.

7.4 Meta tag statistics

One of the benefits of the meta tags is that you can get statistics like how much songs, how much Advertisements you have been broadcasted.



Back to contents

8. DTMF Tones

8.1. DTMF tones managing.

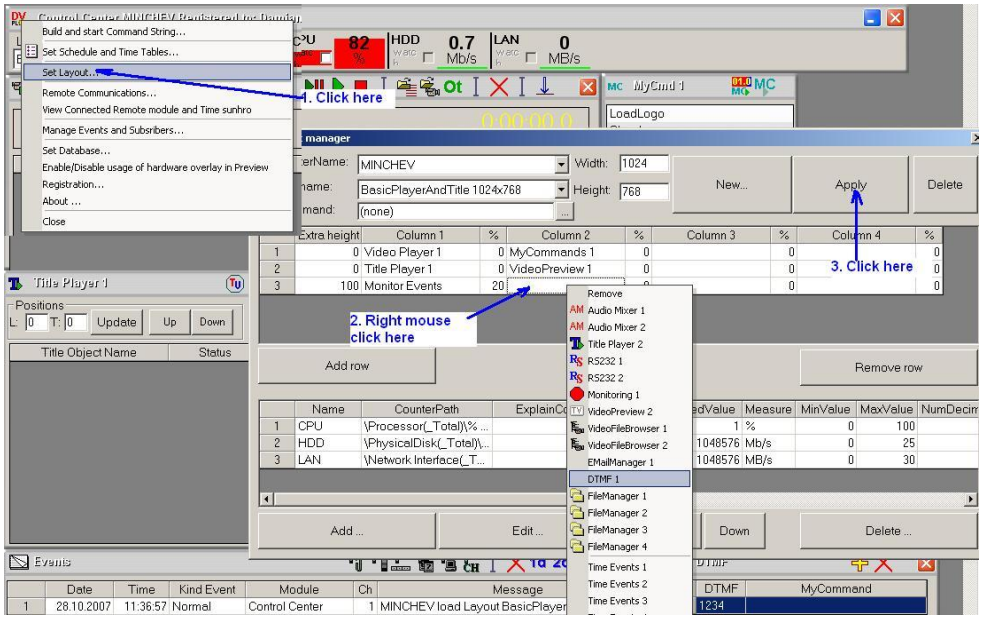
DTMF tones in the DVPlay software are designed for cable operators, who receive and broadcast via cable satellite programs and need after receiving a definite DMTF tone to start playing their own local advertisements or messages. After receiving other DTMF tones they need to stop playing their own advertisement and to continue broadcasting the satellite program.

For your convenience DVPlay LTD includes its own small program that generates DTMF tones which can be used for test and tune commands you want to execute when a certain DTMF tone is received.

In general, you can add files with advertisements to the playlist and when a command is received the software would start playing the already loaded file. When the current file finishes, the next file would be played. If a Stop DTMF command is received before the playing of the current file is finished, the same file would be played again after receiving the next Start DTMF signal.

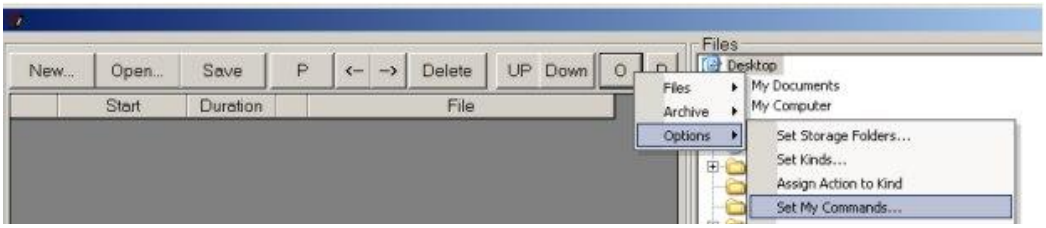
To add DTMF tones please follow the next steps:

1. **Adding DTMF module to the layout** – you need to accomplish this step because the module receiving DTMF tones is not included in the default layout of the DVPlay software.

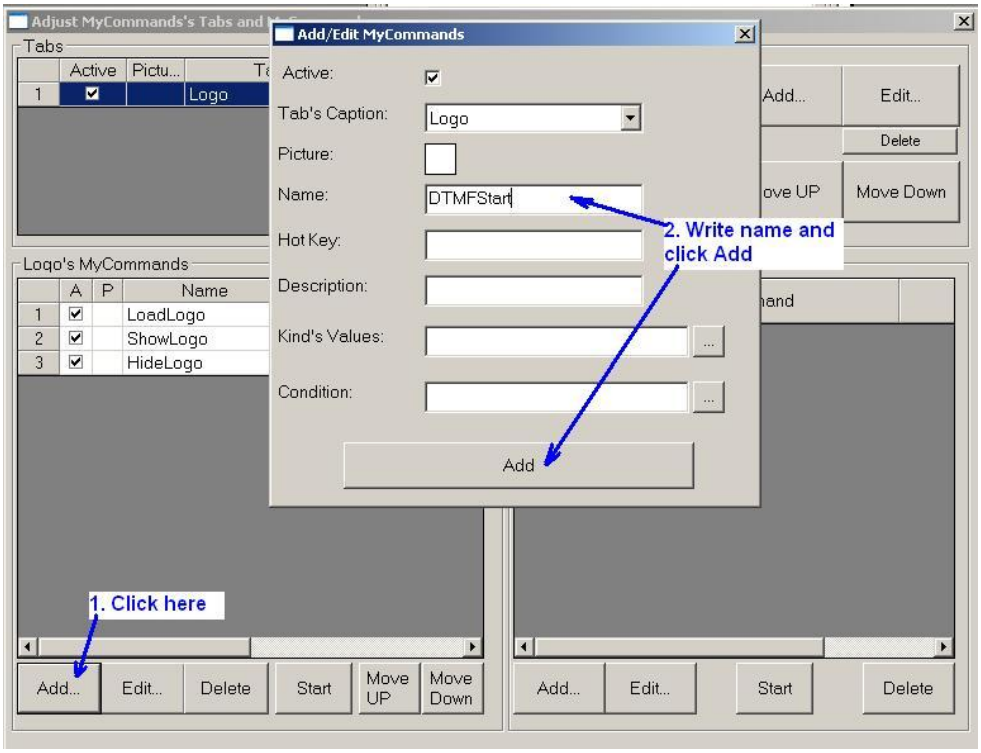


2. **Creating MyCommands profile** – usually you will need two MyCommands profiles - one to start playing the own advertisements and one to stop playing them.

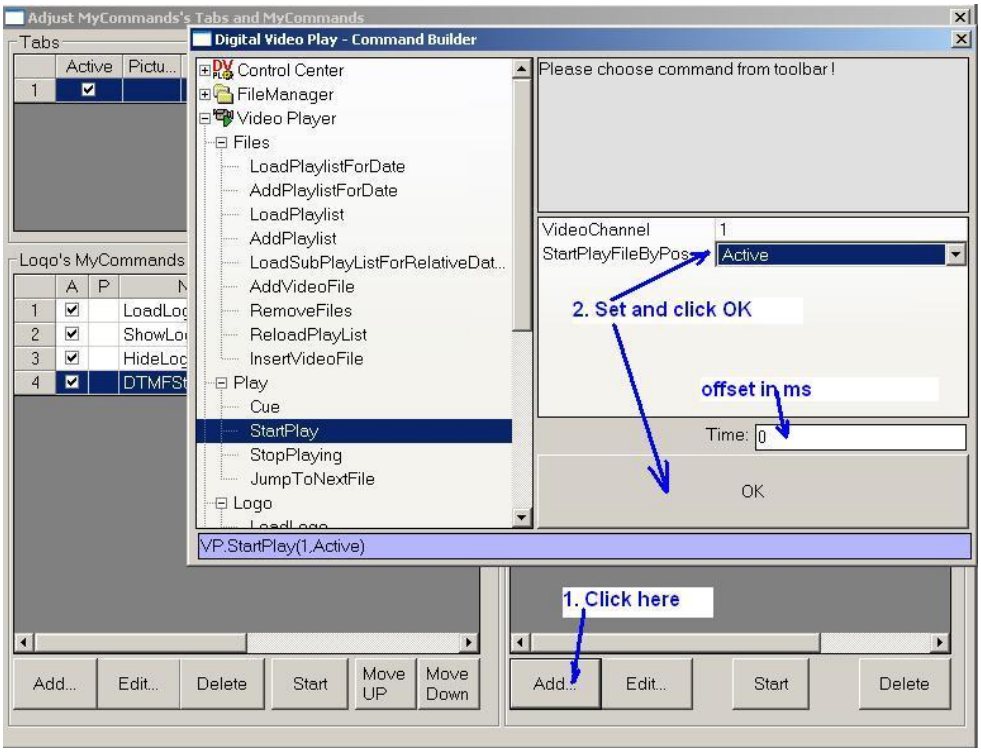
MyCommands profiles are created using the PlayList Editor module.



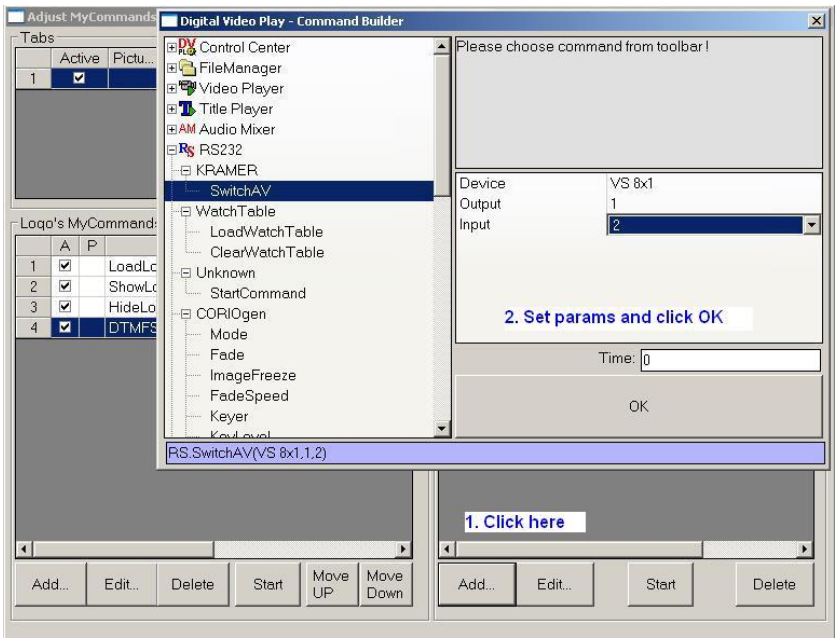
1. Create command with a name DTMFStart which will 1) Send commands to the video player for starting the playback. 2) Switch on/off the switcher.



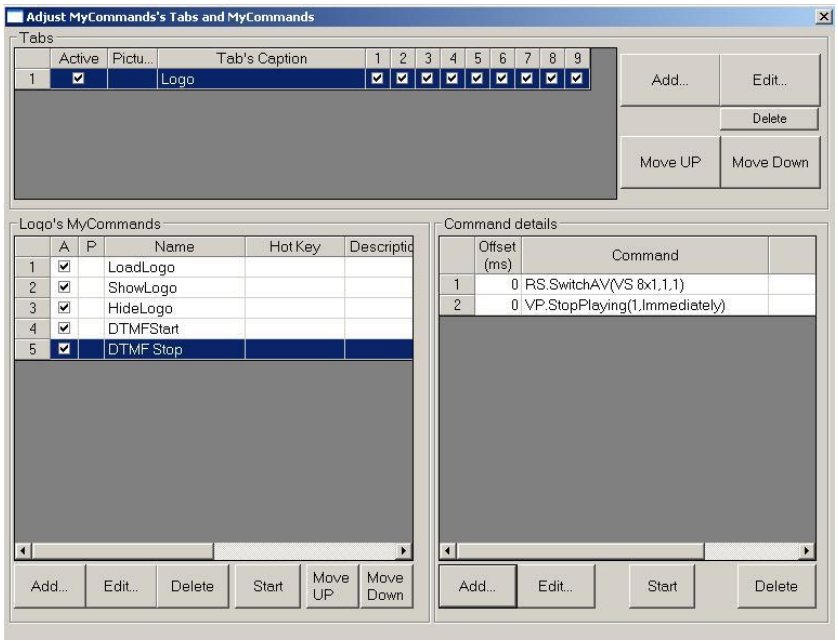
2. Set the DTMFStart command, which would send command to the video player to start playing the current file.



3. Set the DTMFStart command which would switch between the outputs. For this purpose you should use RS-232 modules, which you have to tune for your video matrix model. You may use an offset time if you need the real switching between the outputs to be done for example in 1 second after receiving the Start DTMF tone.

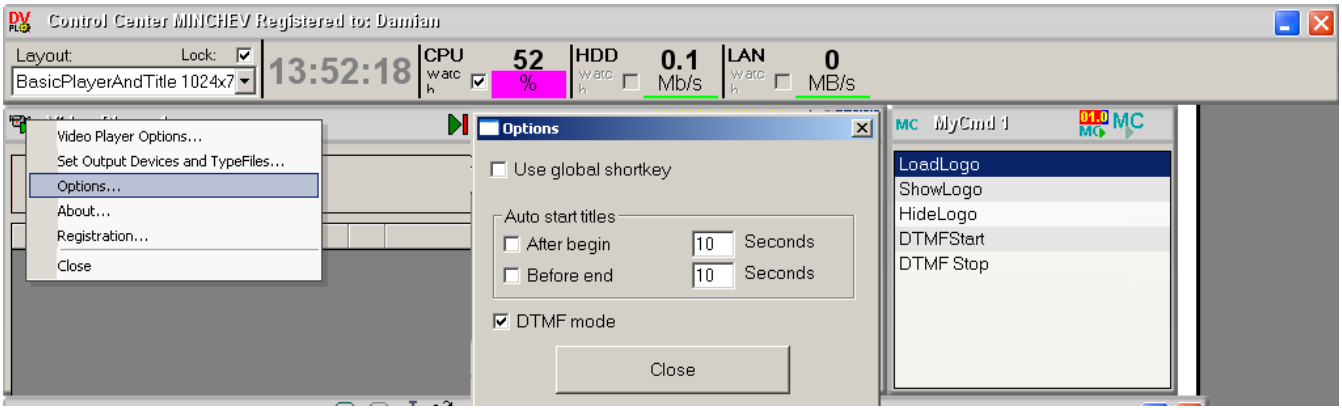


You can create a DTMF Stop Command following the steps as shown on the screenshot below:



4. Set MyCommands profile, which has to be executed when DTMF controlling tones are received.

5. Turn on the video player in DTMF mode.

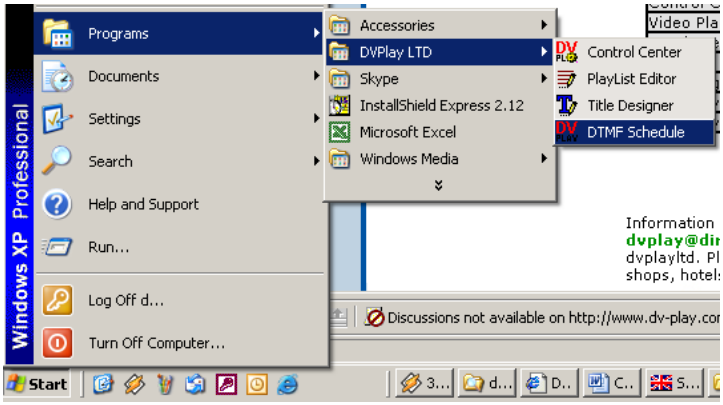


By following these steps the DVPlay software will be tuned to execute specific actions, triggered by the DTMF tones.

8.2. Working with the DTMF generator.

For test purposes the DVPlay software provides DTMF tones generator, which sends DTMF tones to your sound card.

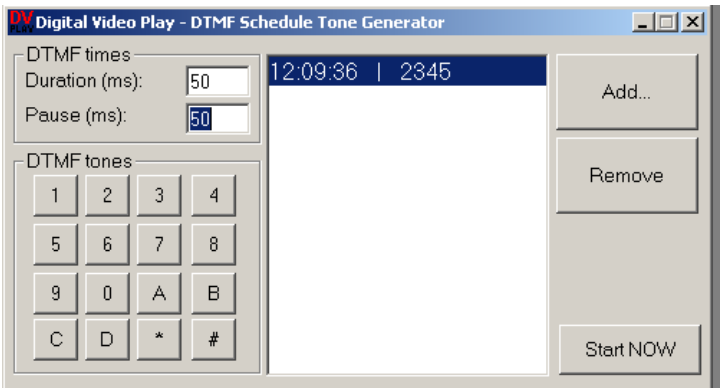
You can start the DTMF Schedule as shown below:



DTMF Schedule – with this tool you can:

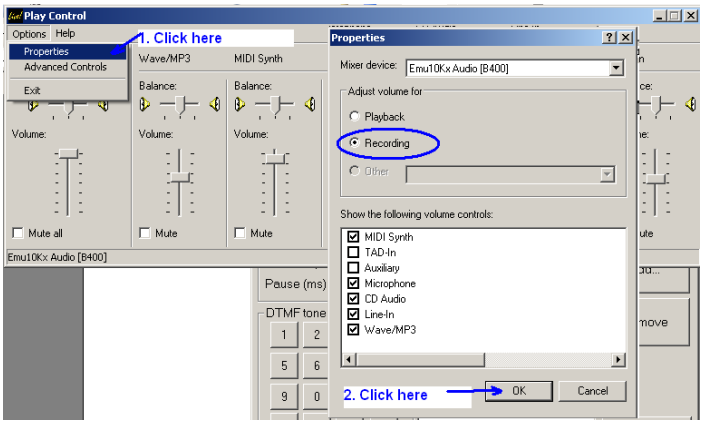
- Create a schedule of the executing times of the DTMF tones by clicking *Add* and then setting the desired sending time of the DTMF tones. You must not close this tool in order the schedule to be executed correctly!

- Execute the DTMF tones by marking the row and clicking *Start NOW*. In this way the DTMF command would be executed at the same moment and not at the previously set time. This allows you to test the reaction of the video player when the DTMF tones are received.

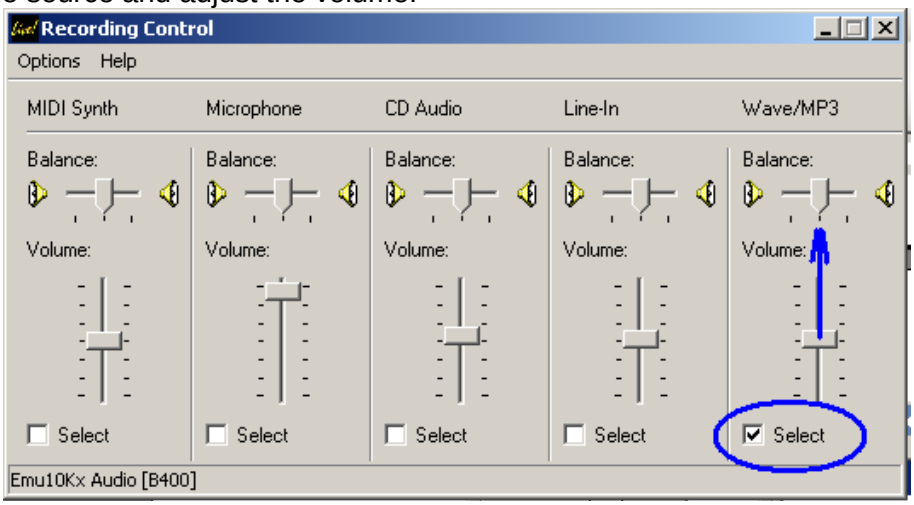


You can use this tool only on the PC with the installed video player. For successful test you must:

1. Not start any programs that generate sound.
2. Set the sound option as shown on the following screenshot.



Then select the source and adjust the volume.



Back to contents

9. RS-232

RS-232 is a module which can be **used to send commands** to other hardware devices like **video matrix, mixers** and others. When you set the RS-232 commands you can insert these commands in the playlist.

DVPlay software can work with **any devices** which receives commands via COM port. There is a standard definition in the database for Kramer's video matrix which supports Kramer protocol 2000 and you will need only to choose it from a list. If you have another matrix you will need additional information about the protocol that it uses. This information you can find in the matrix's protocol manual.

The DV Play software has no option to send commands to external devices via IP protocol. Our experience shows that most broadcasting engineers prefer to avoid possible problems with transferring commands via LAN. If there is a long distance between the server with DV Play software and your external device it is a good solution to use LAN cables which already exist in your building. You can easily do this with a simple mechanical jack shown in the next picture. Some test shows that this is the working solution even on 50 meters distance.

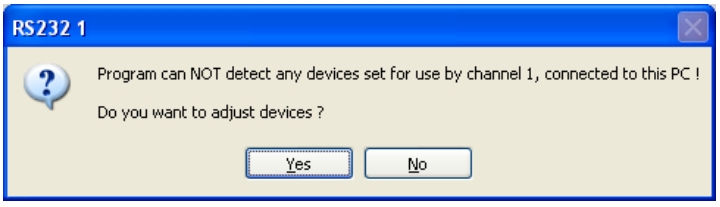
9.1 Instructions to set a Kramer device

Please follow the instructions how to set up the RS-232 module to use the Kramer's switcher.

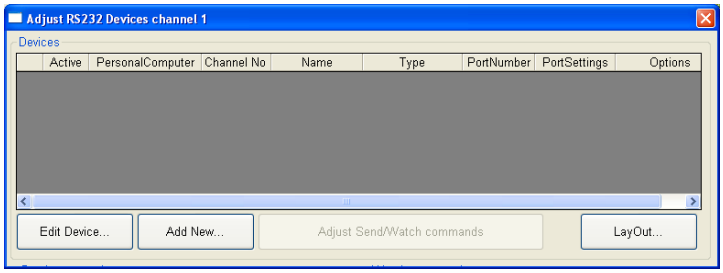
You must add RS-232 module to you layout.

Connect your Kramer device to COM 1 of the computer and power it on.

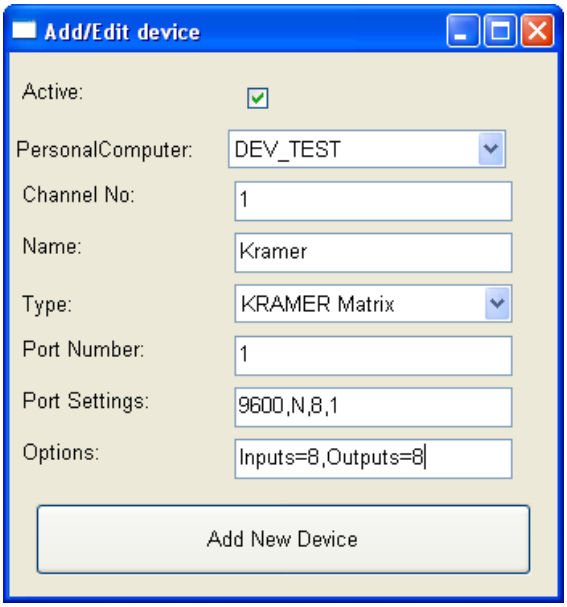
When starting the RS-232 module for the first time you will see the next question. Answer Yes.


RS232 1
Program can NOT detect any devices set for use by channel 1, connected to this PC !
Do you want to adjust devices ?
Yes
No

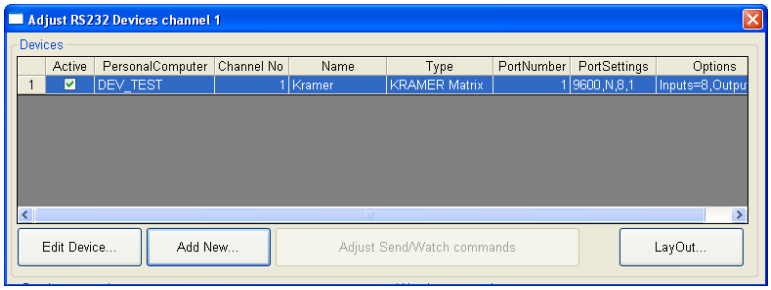
Click *Add New.*



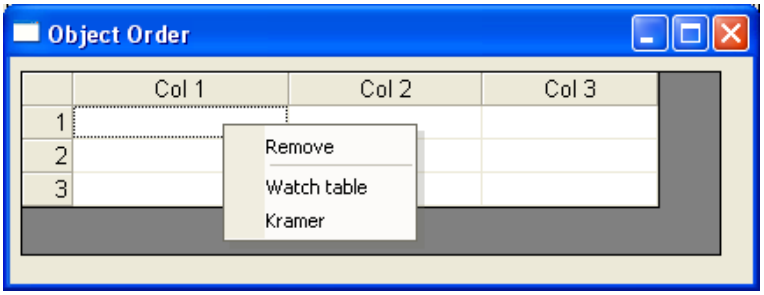
In the next window insert the needed information as shown on the screenshot below. Port number is the COM port of the computer, to which the Kramer device is connected. Type the correct number for your Kramer device in the Input and the Output fields.



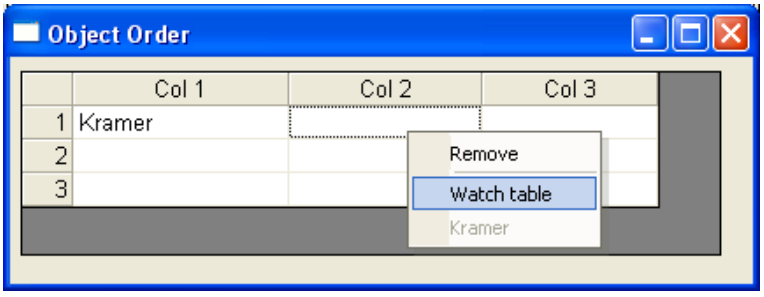
Click *LayOut*.



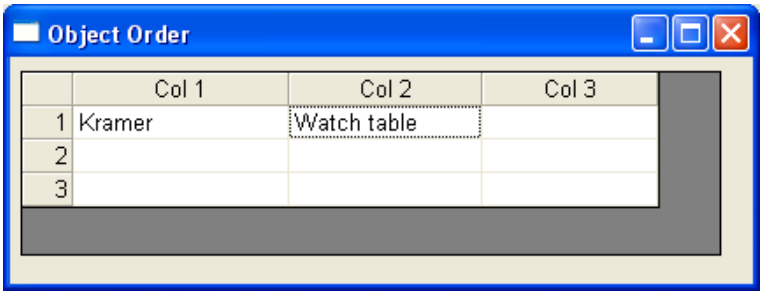
In *Column 1* click on row 1 and choose *Kramer.*



In *Column 2* click on row 1 and choose *Watch table.*



Close the *Object Order* window.



Close the *Adjust RS-232 Device channel 1* window.

Restart the RS-232 module twice in order the new settings to be accepted.

9.2 Instructions how to set a matrix device that supports a protocol, different from the Kramer 2000 protocol.

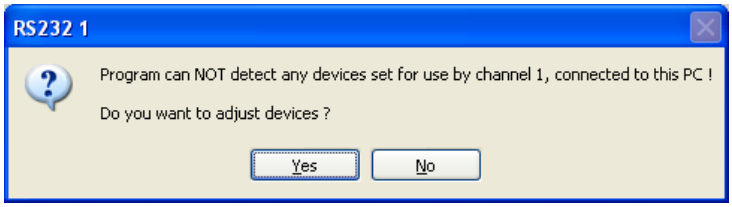
We have to follow two steps – the first is to set the matrix parameters and commands and the second is to insert them in the module MyCommand in such way that they will be loaded on the playlist and used easily.

9.2.1 Step 1 – setting the matrix

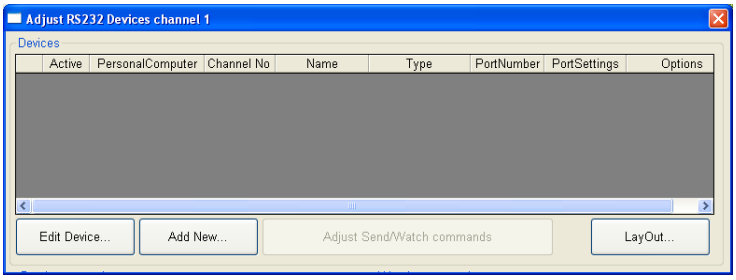
You must add RS-232 module to your layout.

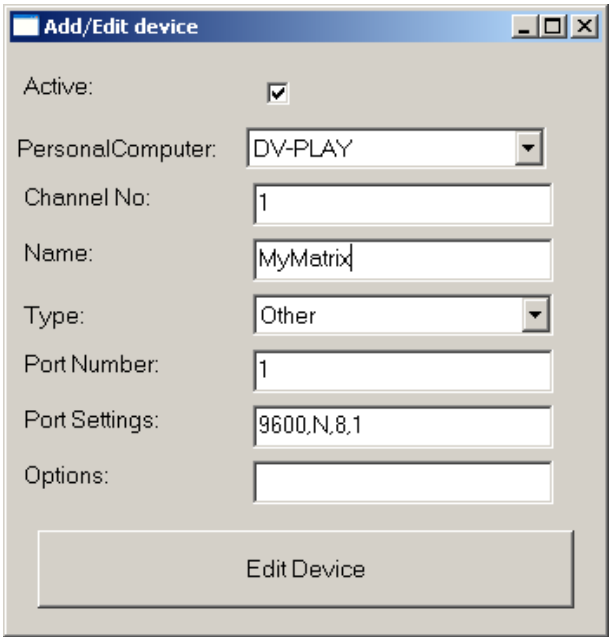
Connect your matrix device to the COM 1 port of the computer and power it on.

When starting the RS-232 module for the first time you will see the next question. Answer *Yes*.

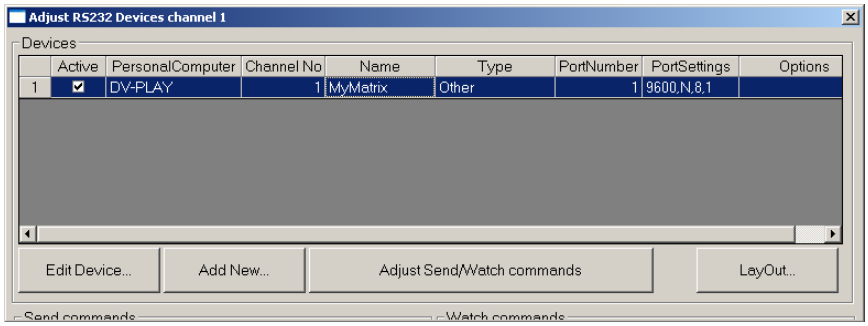

RS232 1
Program can NOT detect any devices set for use by channel 1, connected to this PC !
Do you want to adjust devices ?
Yes
No

Click *Add New.*

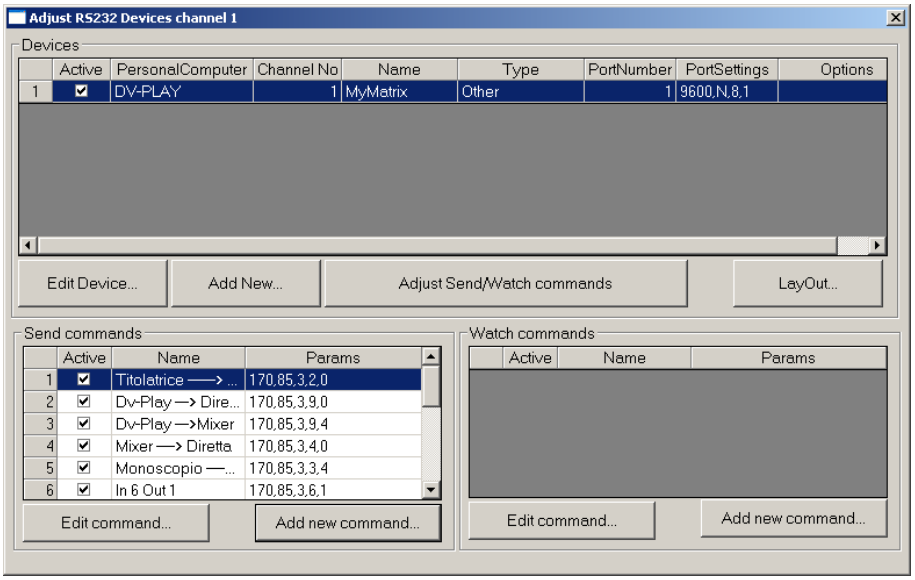




The port settings depend on your matrix protocol. Please refer to its manual to discover the right parameters you need to set here.



Click *Adjust Send / Watch commands*.



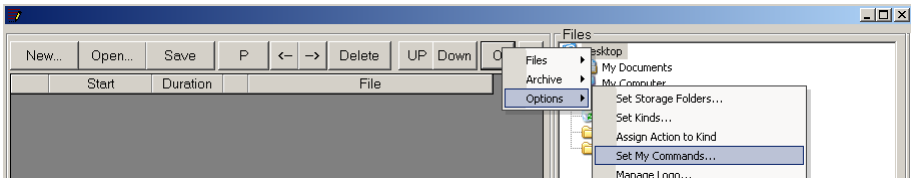
Here we have two types of commands – Send commands, which are commands that your computer sends to the matrix and Watch commands, which are commands that the matrix sends to the computers. Watch commands are rarely used and they are needed only if an operator operates manually with the matrix settings. They allow the DVPlay software to “realize” that the matrix changes its state.

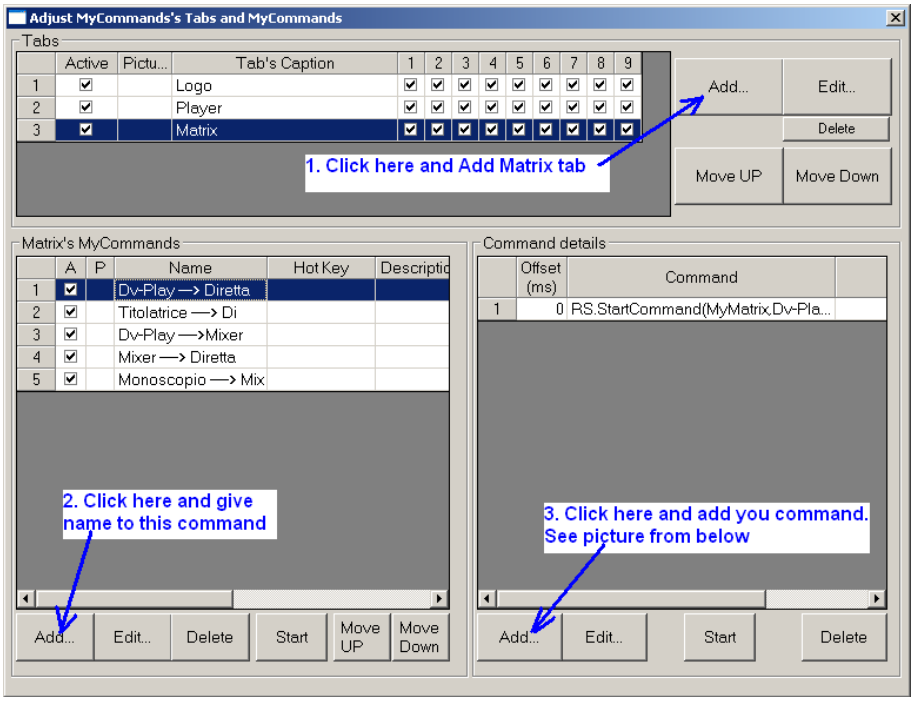
Recommended way to use the matrix is to control it **ONLY** from the DVPlay software with Send commands.
Click *Add new command*. *Send command* format uses DEC system and the separator is comma (,). Refer to you matrix manual to discover what you need to type here.

For example, if according to the manual you need to send RS-232 module command 42 30 37 30 35 0D, you need to convert these values into DEC values. Note that the input and the output are numerated via ASCII table, for example 7 = 35 HEX and for the needs of the DVPlay software you need to **convert this 35 HEX to DEC**. If your matrix uses this conversion pattern you may try to use the following transfer method between the matrix manual and the RS-232 module.
1 = 49 , 2 = 50, 3 = 51, 4 = 52, 5 = 53,6 = 54,7 = 55,8 = 56

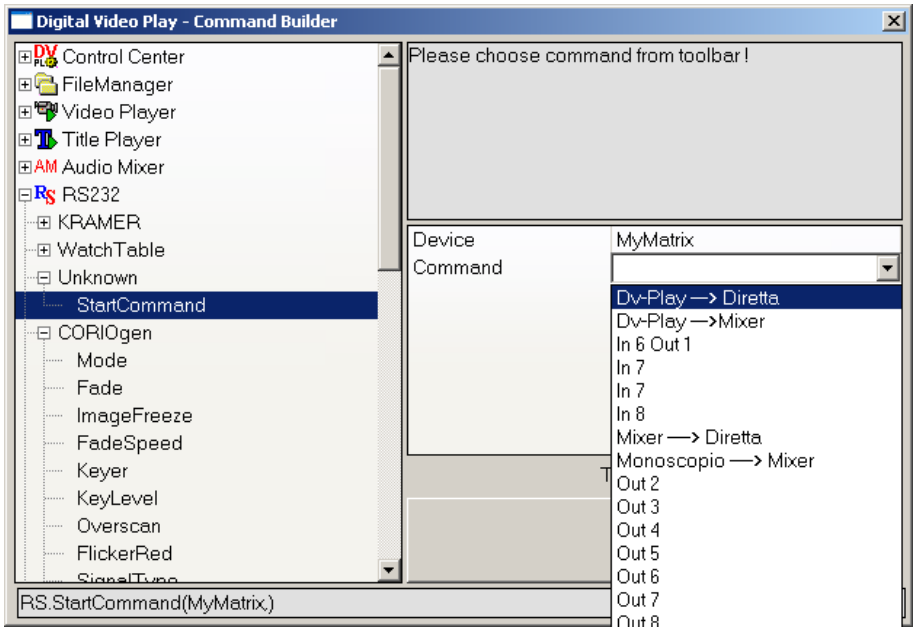
9.2.2 Step 2 – Inserting the matrix commands in MyCommand module

Start the PlayList Editor and choose from the menu the options, shown below:



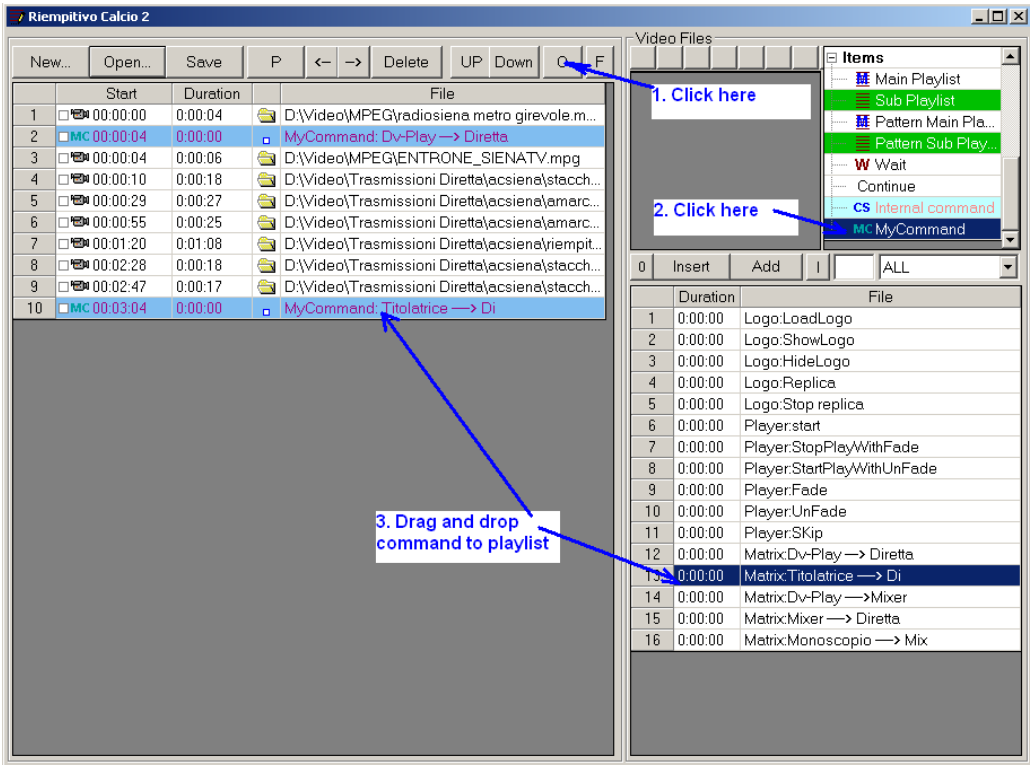


Here we choose commands from the list with the previously set commands as it was explained in step 1.



Then we have the commands grouped in MyCommand module.

And now we are ready to insert this command in the playlist.



10. DV Play Maintenance

10.1 DVPlay Maintenance

You can start the DVPlay Maintenance tool as shown on the following screenshot.

The tool provides you the following functions:

Compact / repair database is useful to optimize the database. Also it helps to fix some possible errors in the database file. Our recommendation is to start it once time a month.

Set default color scheme is useful if you try to set your own color scheme and due to a wrong setting you are not able to load at all the DVPlay software. In such situation you may use this function to load the default color scheme.

The backup database is the most important action you should do at least once time a month. Make a backup of the DVPlay database means to copy the Database directory and its child directories in a safety place. The button will just navigate you to the Database directory and your task is to copy /archive/ it on the safety place.

Notes:

1. Safety place means a device DIFFERENT than your HDD. The backup saved on the same HDD will not help you if the HDD has been damaged and can't be read.
2. The Logo directory can be HUGE in size if you have animated logos. You can include it only in the first archive.
3. In most cases the Backup process can be done without need to close the DVPlay software. You can simply copy the whole Database directory to another place.

Delete all registry settings should be used only in critical situation in which you are not able to start the DVPlay software at all. Once you have deleted those settings when starting the DVPlay software you will be asked for some params, for others it will be used the default value.

10.2 DVPlay Remote control via Internet

The DVPlay software is a playout solution for TV video signal creation and from our perspective i**t should not deal** with other questions like Internet protocols, routers and others. The operation system (Windows) and the specialized in remote control via Internet software like rAdmin, RealVNC, Team Viewer and others should be used for the task. This allows us to focus on our primary goal which is a **reliable TV signal creation**, overlay nice looking titles, easier and faster playlists and title designs creation.

However as many of our customers use DVPlay with remote control we include next chapter to **make easier you task**. Note that you can't use the Remote Desktop sharing included in the XP / Win 7.

You can use almost any commercial or free software for remote access via Internet. Our recommendation is for rAdmin (http://www.radmin.com/) because:

1. Costs **only 49 $** /2012/. For current price please check the site http://www.radmin.com/
2. Allows a file transfer with **resume**. The resume means that if your upload is broken and you start it again, it will continue.
3. Does not affect at all the DVPlay software.

RealVNC is also a preferred choice. But please note that its file download / upload speed is slower, there is no option for resume file transfer and sometimes **it makes problems with the Matrox video card**. However if you prefer RealVNC and you use the DVPlay software with a DeckLink or a Stradis card you may use it.

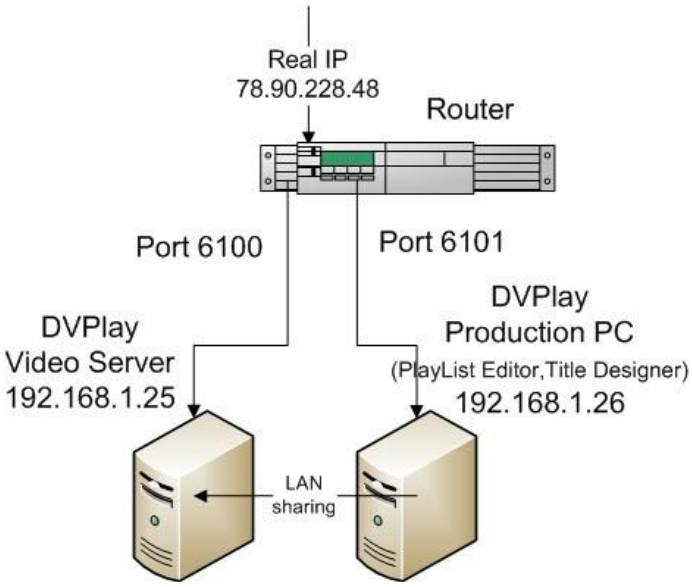
TeamViewer is also a good choice as it does not require Real IP and router settings. But it`s expensive and it should be paid every year.

To set rAdmin, RealVNC you need:

1. A Real IP – if you do not have a Real IP you should ask your Internet provider how to assure it.
2. A Router setting – usually only 1 port should be redirected. Redirect means that for example the IP packets received on the Real IP 78.90.228.48 on the port 6100 should be transferred to 192.168.20.50 (internal address). In most routers this redirection is done via a function called Virtual Server.

Although the use of the router is recommended for security reason we have many customers who have put the Real IP address directly on the video server. In such case **YOU SHOULD TURN ON** the firewall in Win XP/Win 7 and allow only one port communication and set a strong password for Windows Administrator user. **The guest user should be turned off also.**

Here you are a diagram how you should set your LAN networks in a standard scenario when you have a video server and a production PC.



1. You should install rAdmin on the Video Server and set to use the port 6100
2. You should install rAdmin on the Production PC and set to use the port 6101
3. Set the router to use the function Virtual Server with the port 6100 redirected to 192.168.1.25 and 6101 to 192.168.1.26
4. Allow LAN file sharing in both computers. This will allow you to create playlists and insert in them a file name like:
   \\videoserver\D\Movies\John.mpg

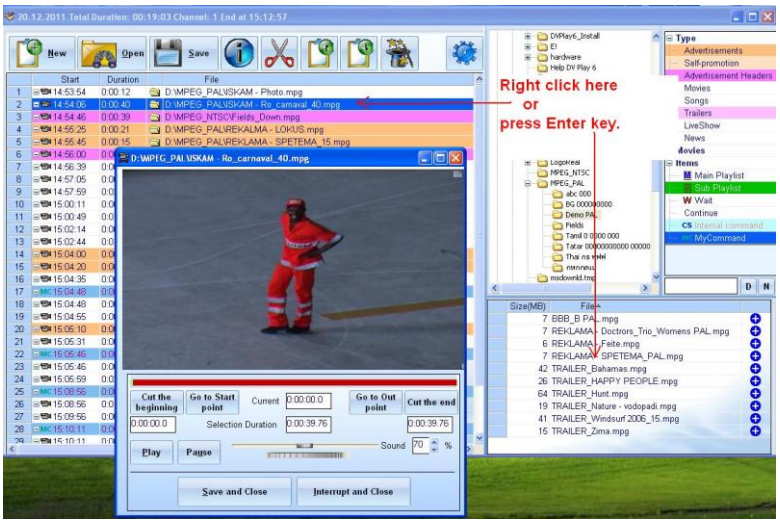
Note:

1. The Production PC may be a virtual machine installed on the Video Server. In this case you will need 2 LAN cards on the video server.
2. Setting the routers to work with the Virtual Server is a common task for any network administrator. If you are not able to do it yourself please ask for a local help.

Back to contents

11. Preview/Trimming videos

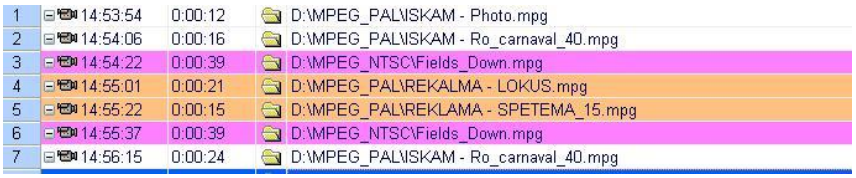
The preview module is one of the most common used modules. Look at the next screenshot to find out how to start it.



With **Play** and **Pause** buttons you can review videos. With the button **Cut the beginning** and **Cut the end** you may hide the credit titles at the beginning or at the end of a certain file.

By using the **Interrupt and Close button** you can temporarily divide a file from the playlist into two parts and insert between them another file with advertisements for example. This option is very useful, because it helps you to avoid dividing a movie into two or more files.

On the next screenshot the video ISKAM-Ro_carnaval_40.mpg is separated (with the button **Interrupt and Close**)in two parts and between them a commercial break has been played.


1 14:53:54 0:00:12 D:\MPEG_PAL\ISKAM - Photo.mpg
2 14:54:06 0:00:16 D:\MPEG_PAL\ISKAM - Ro_carnaval_40.mpg
3 14:54:22 0:00:39 D:\MPEG_NTSC\Fields_Down.mpg
4 14:55:01 0:00:21 D:\MPEG_PAL\REKALMA - LOKUS.mpg
5 14:55:22 0:00:15 D:\MPEG_PAL\REKLAMA - SPETEMA_15.mpg
6 14:55:37 0:00:39 D:\MPEG_NTSC\Fields_Down.mpg
7 14:56:15 0:00:24 D:\MPEG_PAL\ISKAM - Ro_carnaval_40.mpg

You can save the position on which is suitable/nice looking to interrupt the video. The position is marked in yellow. Later you may click on those yellow marks. To delete the yellow mark do right click over it.

Back to contents

12. NewsEditor

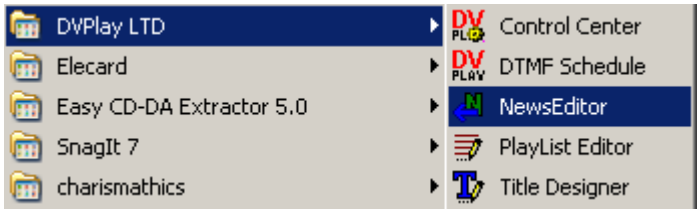
12.1. General description

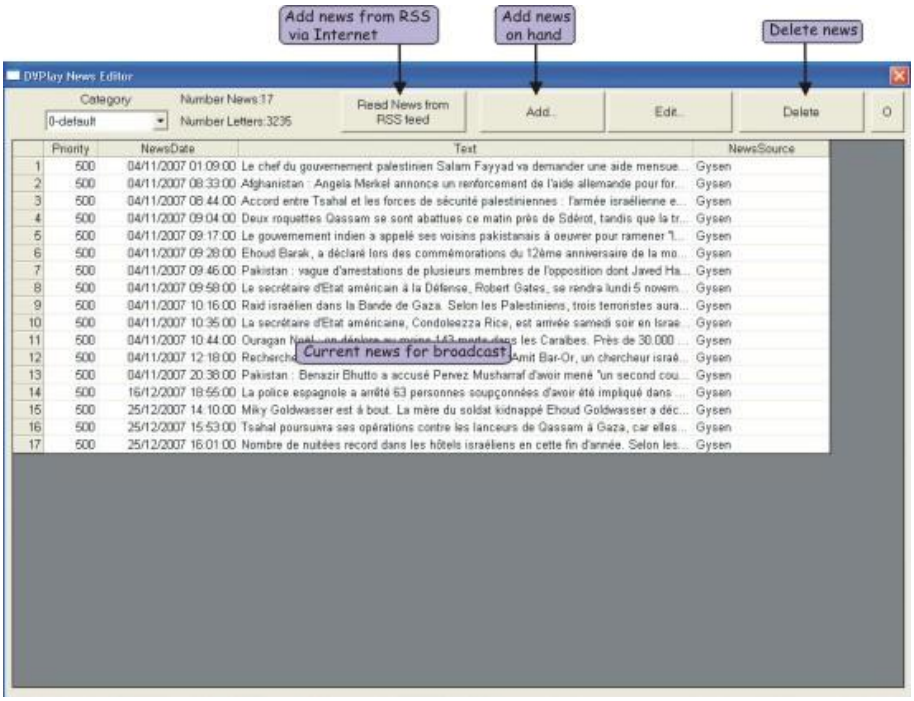
The NewsEditor is designed to read RSS feed via Internet and show the news as a crow title on air. It works in close relation with DV Title and can be fully programmed via MyCommands and Schedule to start reading news from the Internet and then show it in a selected hour range.

NewsEditor module consists of two parts:

- **NewsEditor** is a program, which is responsible for saving news in the database. It can get news from RSS directly via Internet or an operator can load the news manually.
- **DVP Title page for news** is another program, which reads news from the database and shows it as titles.

You can start NewsEditor from DVPlay's program group.



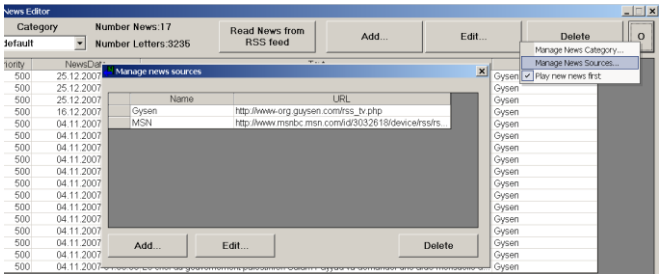


Here we can see the current list of news, saved in the database and prepared for broadcasting. This list is shown on air and when the last news finishes, the list is played again from the first news item. If you want to change the order, in which news are broadcasted, you must change the priority to a smaller number.

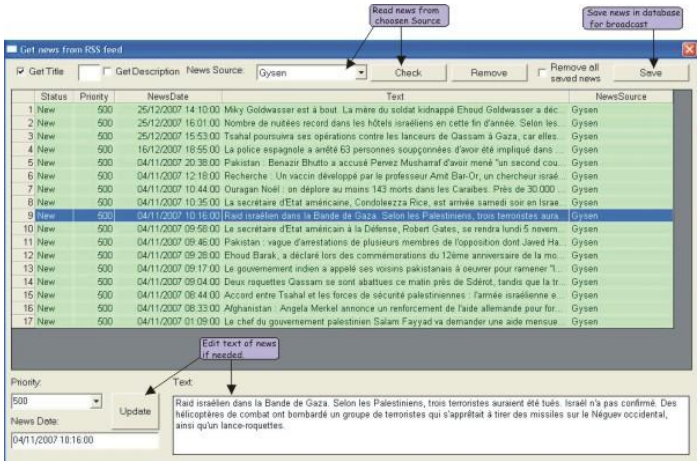
We can add, edit or remove news manually from this list. The changes will be seen on air when the last news finishes and the first news is played again.

The news has a property, called CATEGORY. For example you can have morning news and evening news and you can set the program in a mode that the morning news can be taken from RSS CNN and the evening news -- from RSS MSN. Then you can set the program so that the morning news can be broadcasted from 09:00 to 12:00 o'clock and the evening news -- from 18:00 to 20:00 o'clock.

Before reading the RSS feed you need to define it.



Now we can read news from RSS. Click *Read News from RSS feed*.



To read news from RSS feed you have to:

1. Choose *News Source*.
2. Click *Check*.
3. If you want you can review the news, edit them or change their priority.
4. Click *Save*.

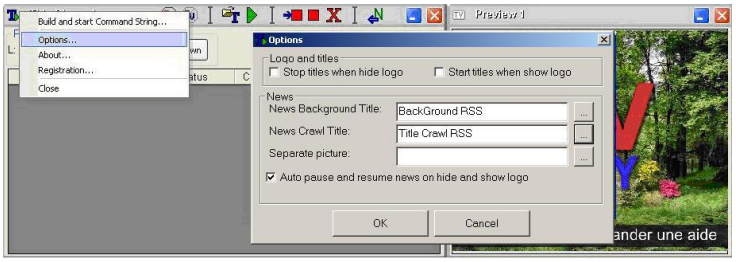
Some RSS suppliers put at the top of the text the title, followed by a string separator, and then the description of the news. You can try different arrangement patterns using Get Title and Get Description for the RSS supplier, chosen by you.

Showing news on air

Title Player is responsible for reading news from the database and showing it like title. First you must set some options to arrange the way the RSS Titles would appear on the screen. You need two titles, which would be used as a template. These titles are created with the Title Designer and should be:

- News Background title. It is the background, on which the text will be shown. On the picture below the background is black. This title should consist of one static picture object that would be displayed for a very long period of time, for example 24 hours.
- NewsCrawl title. It contains one Crawl object on which you should set the font, the size and the color of the text of the news. You should set its frame border Alfa to full transparency (Alfa 255), because we use this title only to show text on it.

Both titles and their objects should have equal settings for their top position. IT IS OBLIGATORY TO CHECK THE BOXES AS SHOWN ON THE PICTURE BELOW!



Separate picture should be set if you want to see the picture like a separator between separate news. This is not a required parameter.

The Title Player is responsible for reading news from the database and showing it as a title. Click on the Title Player menu to see the window with the news.

Title Player 1
News
Play News
Stop News
Pause News
Resume News
Priority
NewsDate
Text
1 500 04/11/2007 01:09:... Le chef du gouvernement palestinien Salam Fayy...
2 500 04/11/2007 08:33:... Afghanistan : Angela Merkel annonce un renforce...
3 500 04/11/2007 08:44:... Accord entre Tsahal et les forces de sécurité pale...
4 500 04/11/2007 09:04:... Deux roquettes Qassam se sont abattues ce mati...
5 500 04/11/2007 09:17:... Le gouvernement indien a appelé ses voisins paki...
6 500 04/11/2007 09:28:... Ehoud Barak, a déclaré lors des commémoration...
7 500 04/11/2007 09:46:... Pakistan : vague d'arrestations de plusieurs mem...
8 500 04/11/2007 09:58:... Le secrétaire d'Etat américain à la Défense, Robe...
9 500 04/11/2007 10:16:... Raid israélien dans la Bande de Gaza. Selon les ...
10 500 04/11/2007 10:35:... La secrétaire d'Etat américaine, Condoleezza Ric...
11 500 04/11/2007 10:44:... Ouragan Noël : on déplore au moins 143 morts da...
Preview 1
DV PLAY
Salam Fayyad va demander une aide

Here you can see the current news, saved in the database and should use the button *Play News* to operate with it.

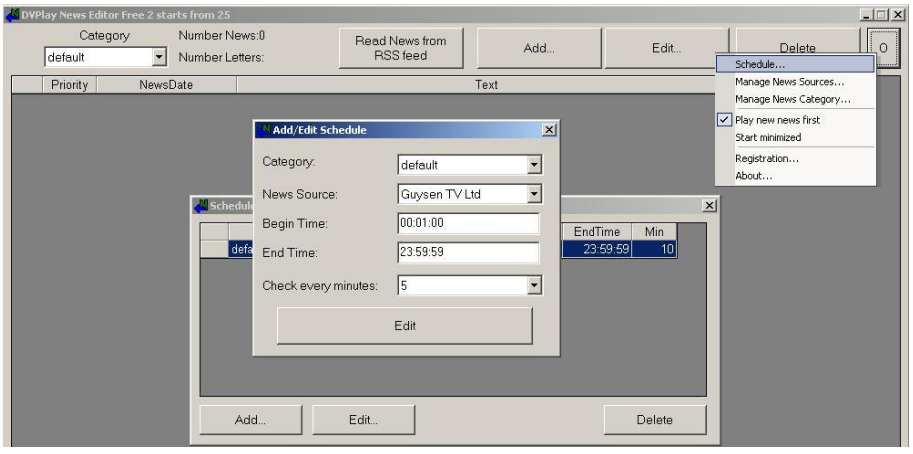
12.2. Showing news in schedule

You should set two schedules:

- Set schedule for getting news from RSS feed via internet
- Set schedule when to show news on air

For setting schedule to get news from RSS feed via internet look at the picture below and follow the next steps:

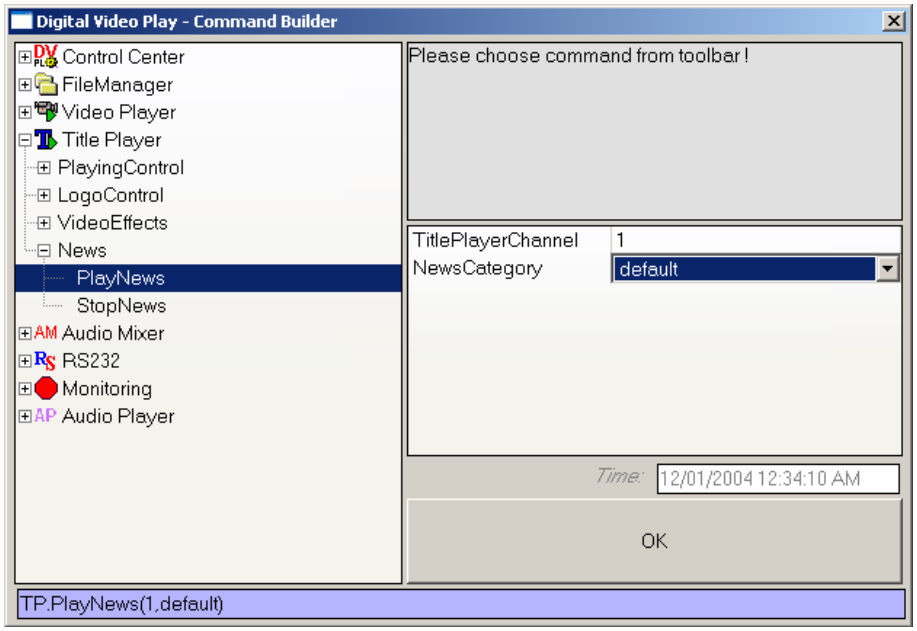
1. Click *O* and choose Schedule
2. Click *Add* and set the proper actions.
3. Minimize *News Editor*.



Note: The program News Editor should be started in order to check for news. When you minimize it, you will see it as shown on the picture below:

Setting schedule when to show news on air.

You have two options on the Command builder menu – PlayNews and StopNews. Please refer to Chapter 6. Scheduling and the given example how to set the automatic loading of the playlist and start playing on a predetermined date and time. The difference here is that we use the commands PlayNews and StopNews instead of the commands AddPlaylist and StartPlay.



Back to contents

13. E-mail Manager

DVPlay software has a powerful e-mail function. It has two different ways to send e-mails:

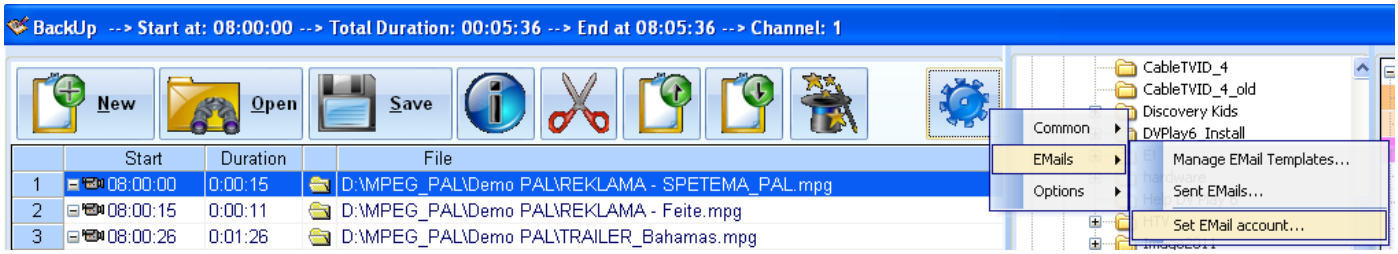
- Direct sending, which depends on the severity of the event (its kind and rank)
- Using a template.

The more efficient way to send e-mails is by using a template. It works in a server-like way, i.e. the program makes logs of the sent e-mails and the ones, failed to be sent, every time when it makes attempts to send an e-mail. It can also send e-mails with attached files including different information.

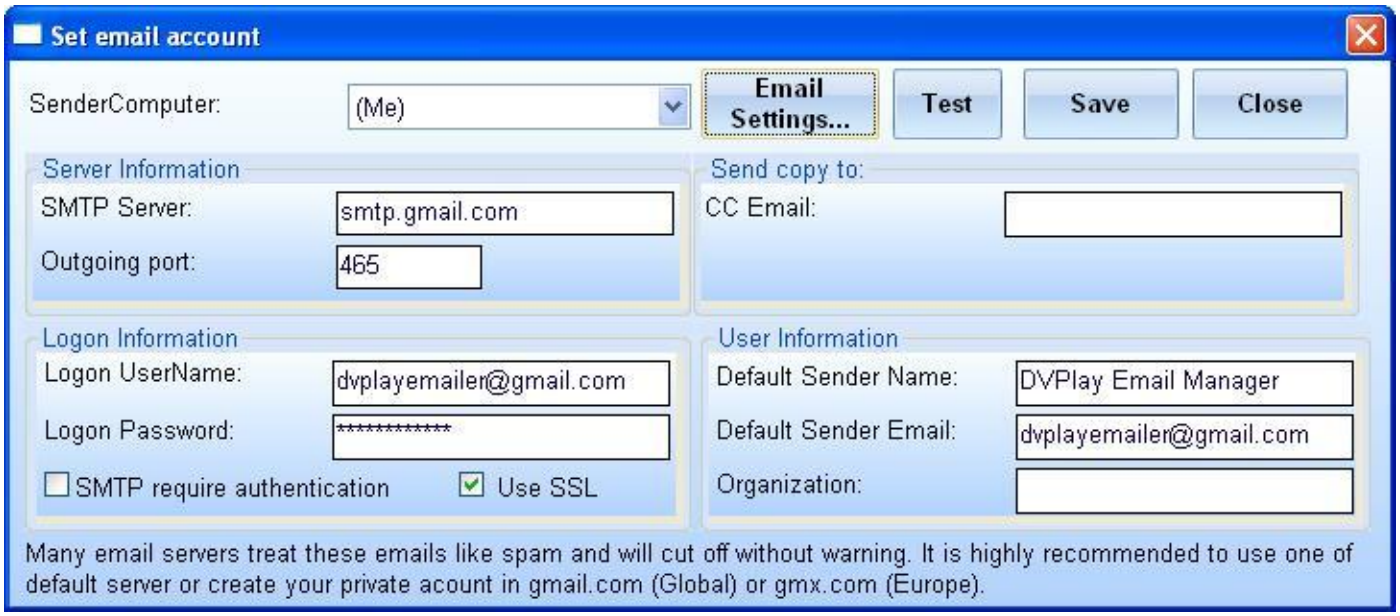
EMailManager can send e-mails using SMTP protocol with plain or secure (SSL) layer.

Setting an e-mail account from which the e-mails would be sent

Start the *PlayList Editor* and choose *Set Email account* as shown below.

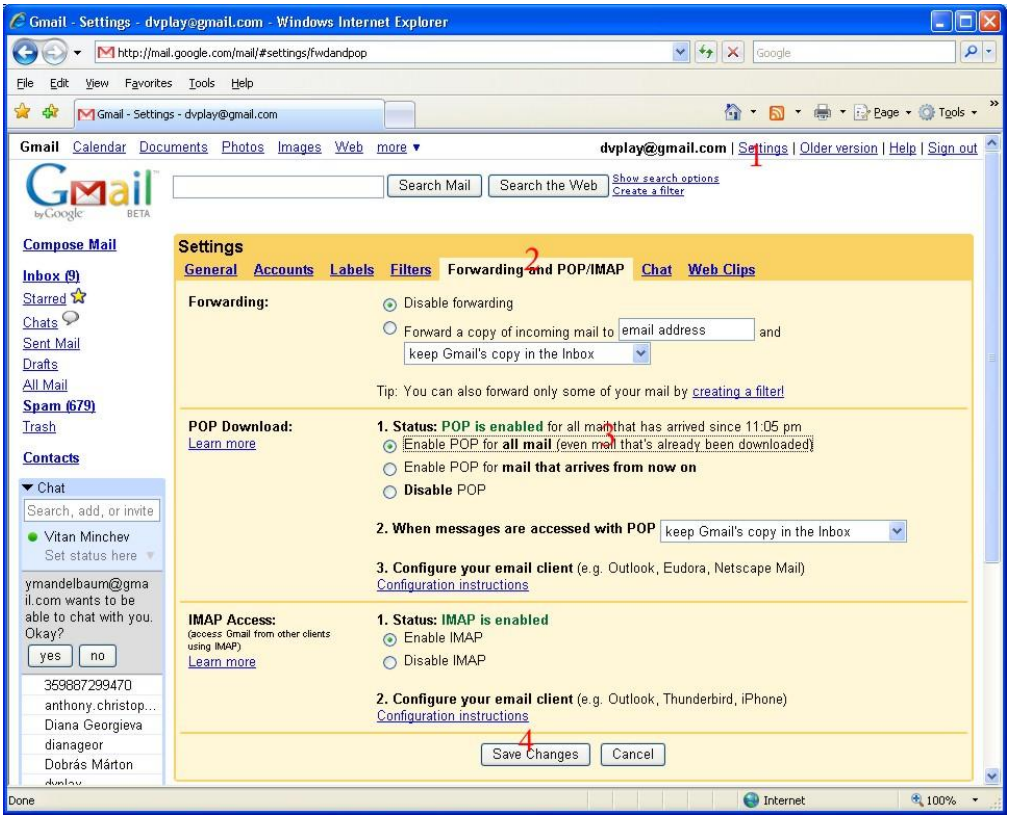


DVPlay software comes with predefined settings that allow it to connect to the two best free SMTP servers – Gmail.com and GMX.com. Click on *Email Settings* and choose one of the predefined accounts. You may click the *Test* button to try sending an e-mail.



It is recommended to create your e-mail account in Gmail.com or GMX.com and set the EMailManager to use it. Just choose the predefined account and replace *dvplayemailer* in *Logon UserName* and *Default Sender Email* with the name of your account. Also type your password in *Logon Password.*

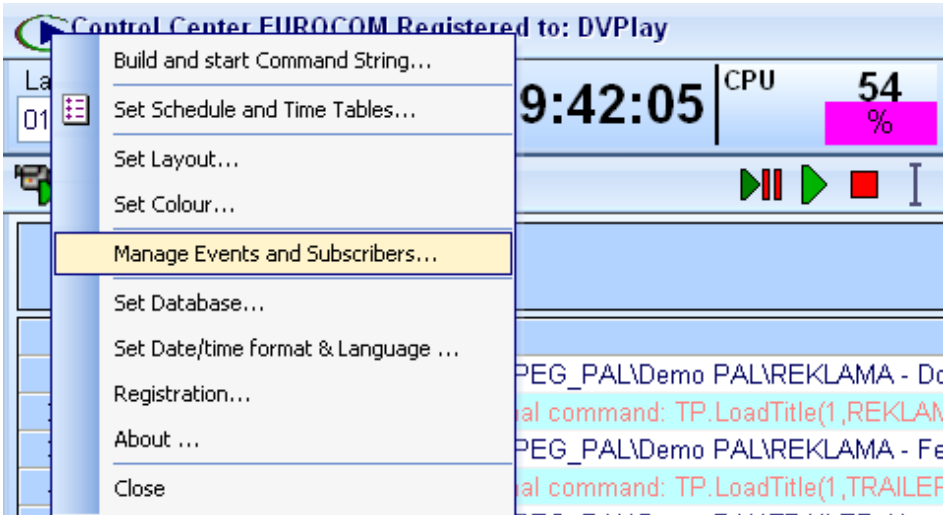
SMTP is enabled by default to connect to GMX.com. But SMTP on Gmail.com has to be enabled in order to be used with external SMTP program like EMailManager. You can see on the screenshot below how to enable POP (and SMTP) on your Gmail account.



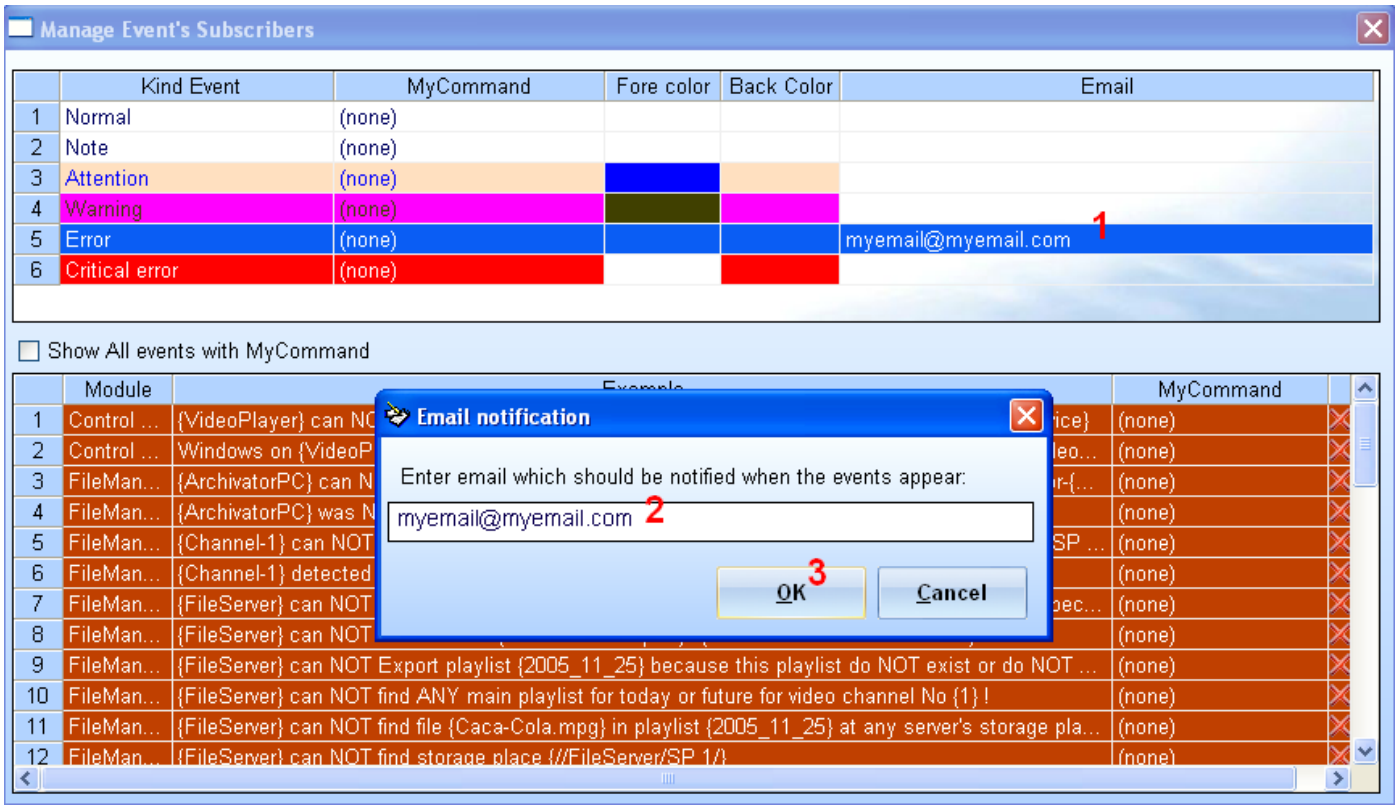
How to send e-mails directly

When DVPlay software works it generates events which are visible in the event log. You may send this event information via e-mail with the help of the e-mail manager. All the events have rank and you may send e-mails with ranks Error and Critical error. In that way you will notice right away when a problem occurs.

Start *Control Center* and choose *Manage Events and Subscribers*.



Click the column *Email* and choose the row *Error* as shown on the screenshot below (indicated with a red figure 1), type an e-mail and click OK. Repeat the same steps to choose the option *Critical Error*.

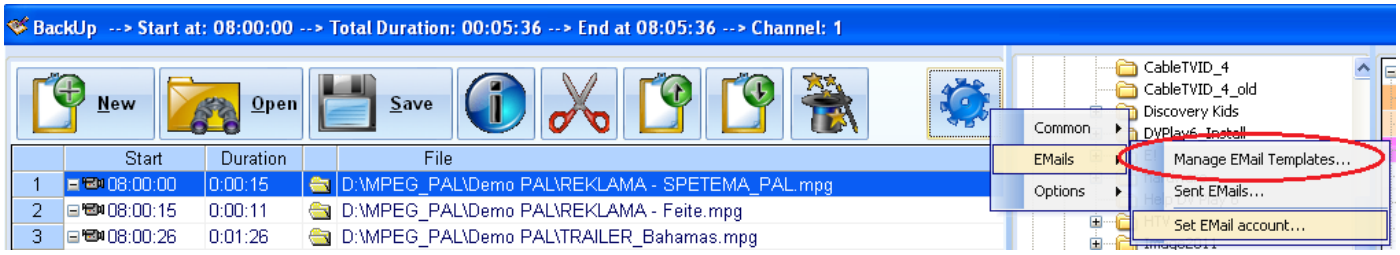

Manage Event's Subscribers
Kind Event
MyCommand
Fore color
Back Color
Email
1 Normal (none)
2 Note (none)
3 Attention (none)
4 Warning (none)
5 Error (none) myemail@myemail.com
6 Critical error (none)
1
Show All events with MyCommand
Module
MyCommand
Email notification
Enter email which should be notified when the events appear:
myemail@myemail.com
2
OK
3
Cancel
{FileServer} can NOT Export playlist {2005_11_25} because this playlist do NOT exist or do NOT ...
{FileServer} can NOT find ANY main playlist for today or future for video channel No {1} !
{FileServer} can NOT find file {Caca-Cola.mpg} in playlist {2005_11_25} at any server's storage pla...
{FileServer} can NOT find storage place {//FileServer/SP 1/}

How to send e-mails using templates

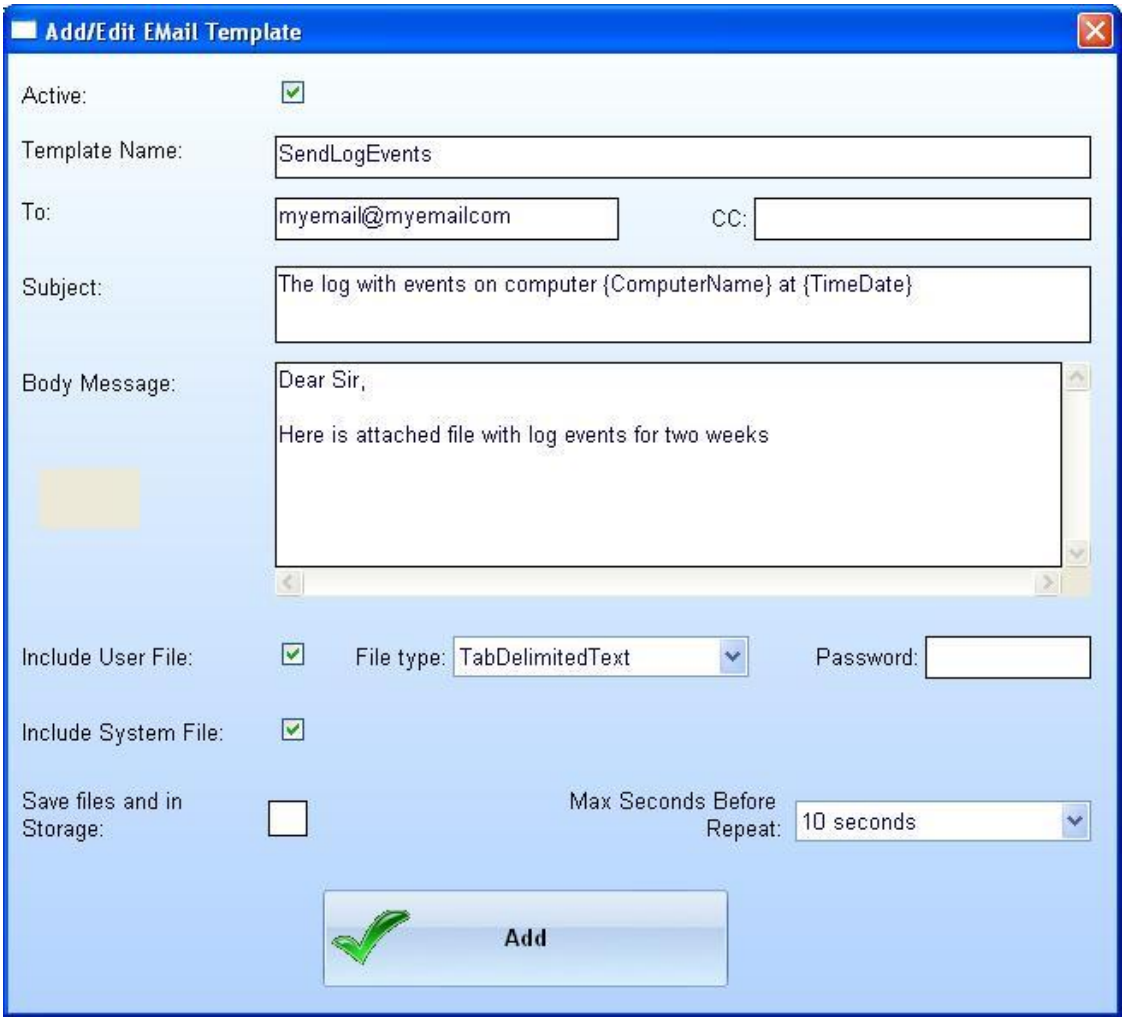
To send e-mails using templates you have to create an e-mail template, insert a command in MyCommand module that would use this template and set MyCommand to start the process of sending an e-mail when an event with Kind Event occurs. You may also start this function manually from MyCommand module.

To create a template:

1. Start the *Playlist editor* and choose ***EMails/Manage Email Templates***



2. Click *Add* and you will see a window as shown on the screenshot below. Note that by right clicking on the text, written in the *Subject* and *Body Message* fields, you can insert the computer name or the time of the creation of the template.



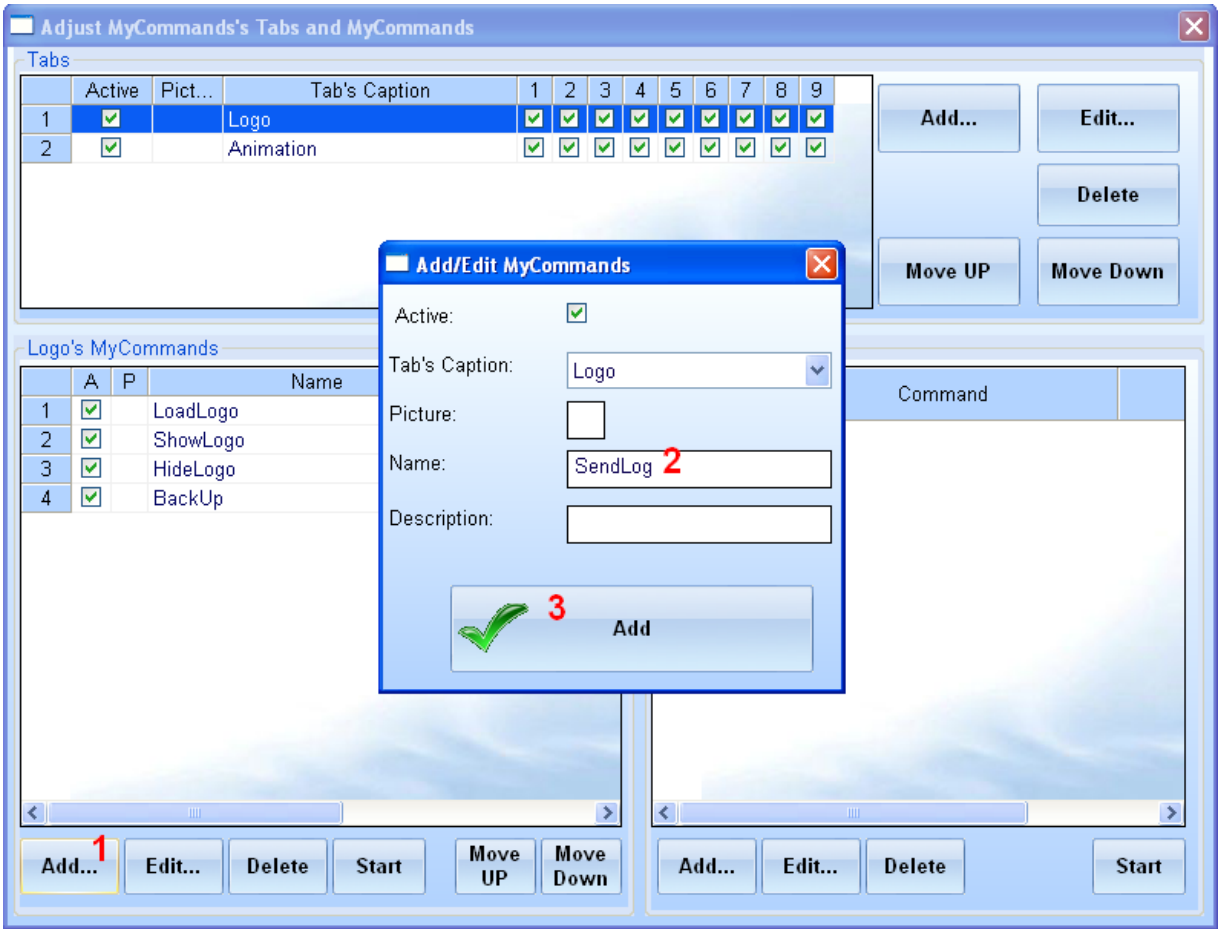
Note: *Max Seconds before repeat* is a special blocking system that does NOT allow the repeated sending of e-mails. For example some action can trigger many errors and this can provoke sending of hundreds of e-mails! So if two or more events occur almost simultaneously an e-mail would be sent only as a notification of the first event and all the next events, occurring within a time-frame of adjustable number of seconds will be skipped.

You may use a template, containing export commands string/view. It is of great importance what option and command would be chosen in the columns *Include User File*, *File type* and *Include System File* for creating a template. Here is a list of commands and options, used in the templates.

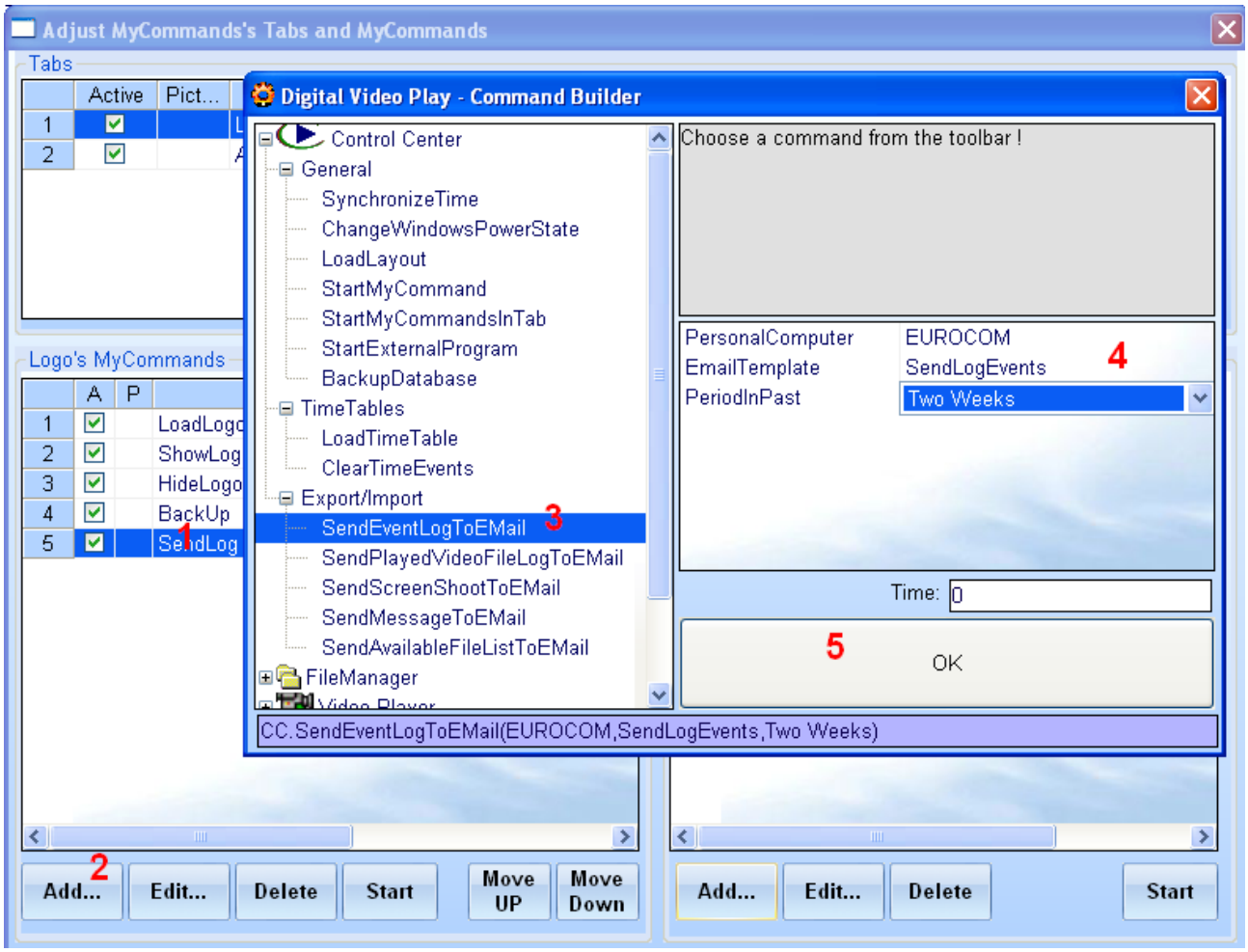
	Include User File	**File type**	**Include System File**
SendEventLogToEMail	checked	TabDelimitedText	checked
SendPlayedVideoFileLog ToEMail	checked	TabDelimitedText	checked
SendScreenShotToEMail	checked	Picture Picture(ZIP)	checked
SendMessageToEMail	Unchecked	(none)	Unchecked

Creating MyCommand profile, that uses a template

1. Start the *PlayList Editor* and choose *O/Common/Set MyCommands.*
2. Click *Add,* type in the *Name* field *SendLog* and click *Add.*

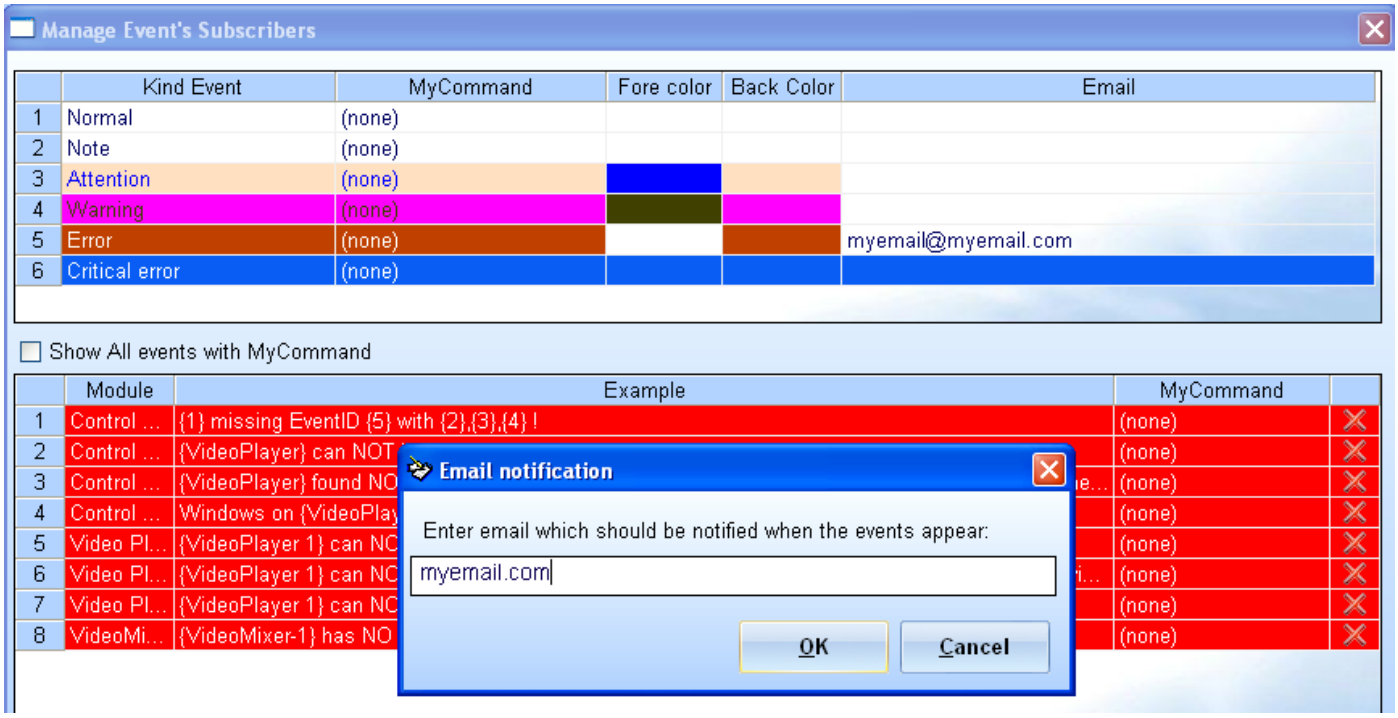


3. Click *SendLog*, click *Add*, choose *SendEventLogToEMail*, select parameters and click *OK*. Now you have MyCommands profile that sends e-mails using the template *SendLogEvents*.



4. You may set this command to be started when event with rank Error or Critical error takes place. Choose *Manage Events and Subscribers* from the *Control Center* menu.

5. Click the *Error* row and *MyCommand*. Answer *Yes* and choose *MyCommand SendLog*. Repeat the same steps for setting *Critical error*.



Back to contents

14. Common Tasks Solutions

14.1. Keeping the settings when reinstalling Video Player

In some cases you may want or you can be forced by the circumstances to reinstall / install the video player on a new computer. This chapter explains us how to do this easily and quickly. You can also find here recommendations how to maintain the Video Server in good condition.

First, after installing the Video Server and adjusting all the settings, we recommend you to make a backup of the partition of the HDD on which the program is installed. Usually this partition is marked with the letter C. You may use programs like Acronis, Norton Ghost, Drive Image, Partition Magic or any other program able to create and restore the image of all the partitions. In that way you can be sure that you will easily make a restore operation from this image in case of HDD failure, MB failure, viruses attack or making wrong settings. In case of MB failure if you are able to find exactly the same model of your MB you can also use this image.

All the settings of the Video Player are saved in our database directory which is usually C:\Program Files\DVPlayLtd\Database. We recommend you to make a copy of this directory on other computer regularly via LAN connection or via CD for example once a month.

The other case is when you need to move the Video Player from one computer to another. Then you need to:

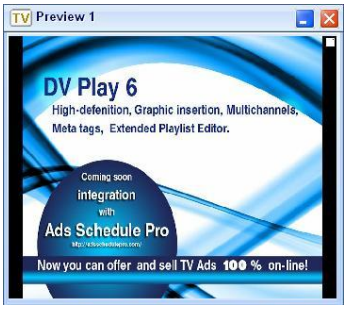
1. Copy the database directory of the old computer to a flash drive or other source.
2. Make sure that you start to remove the registration of the DVPlay software from the old computer and send us the files that prove that you are actually making a removal.
3. Make sure that the network name of both computers (the old and the new) is the same. Most of the settings are related to the computer name. The monitor of the new computer must have equal or better screen resolution than the old one.
4. Install the Video Player on the new computer using the same installation path.
5. Move all the files in the database directory of the new computer by copying this directory from the old computer.
6. Send us the removing registration files and demand a new registration.

By following these steps all your settings will be transferred from the old to the new computer. If you keep the path to the MPEG files the playlist will be also available.

Back to contents

14.2. Changing the picture in the preview window

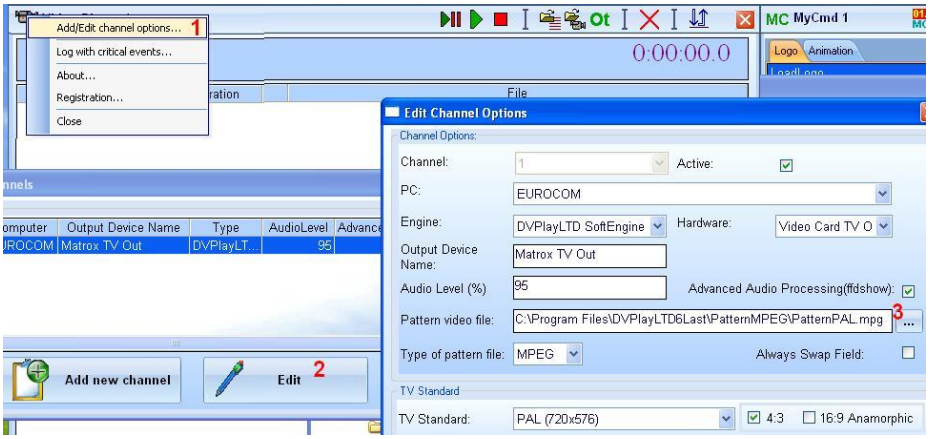
A standard screen is shown in the Preview module by default. This picture is sent to the TV output when you do not play files and you may wish to change it.



To do this you need to change the pattern file. A pattern file is a standard MPEG-2 file with duration between 10 and 30 sec. If you intend to play only .AVI files it is better to set this pattern file to .AVI format.

Instructions how to change the pattern file:

1. Create a pattern file and then test it by loading and playing it.
2. Set the pattern file on the video player menu.



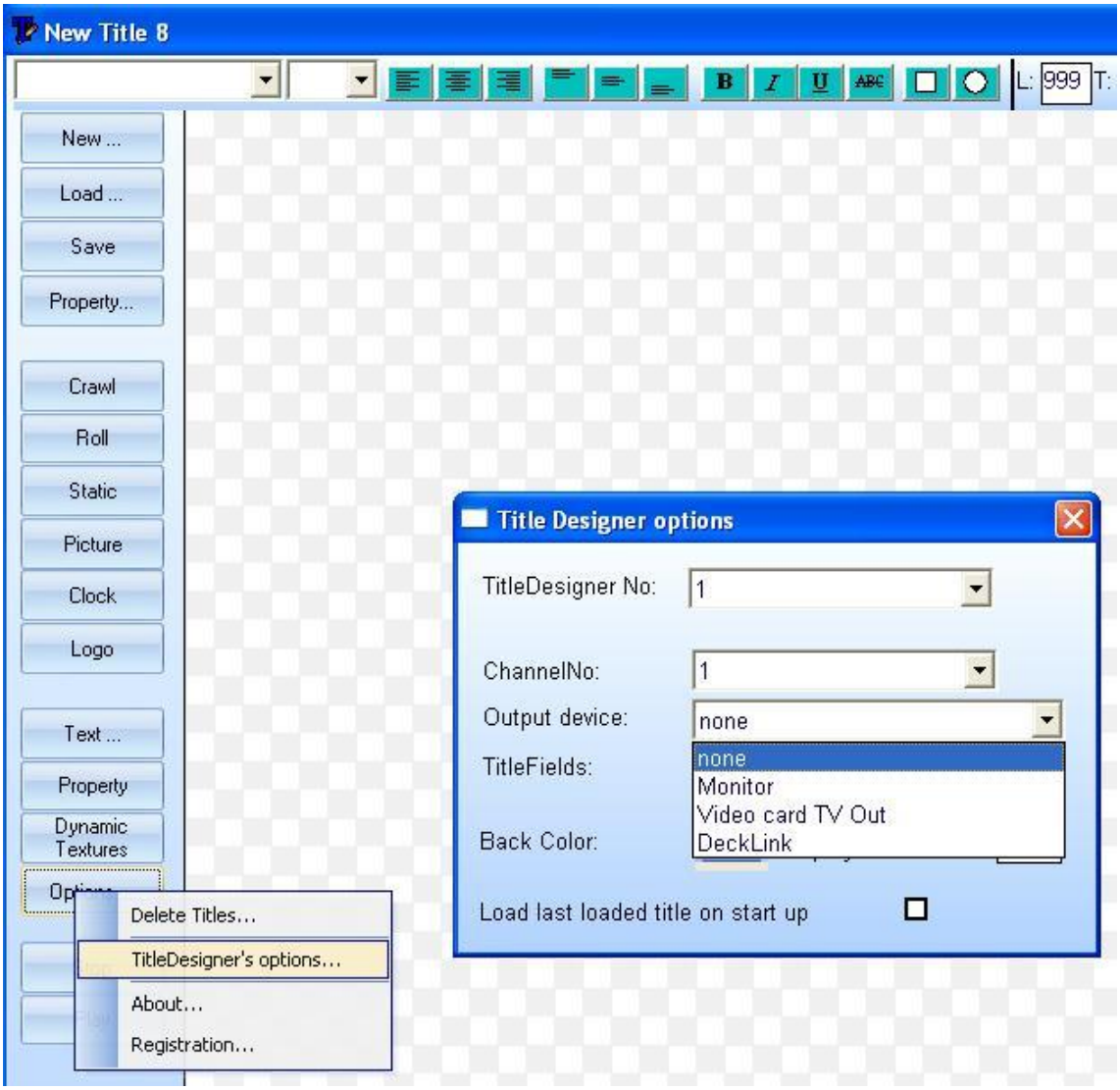
3. Restart the video player

14.3. Needed settings when TitleDesigner and Video Player are started on one and the same computer.

It is NOT recommended to open the program TitleDesigner on the same computer, on which the DVPlay software is already working. In case that you can not comply with this requirement it is absolutely OBLIGATORY to adjust the settings as shown on the screenshot below.

To set the option you must:

1. Open the program *TitleDesigner*.
2. Click *Options*.
3. Choose *none* from the *Output device* drop-down list.



Back to contents